STATE OF HAWAII
STATE PROCUREMENT OFFICE
HONOLULU, HAWAII

September 28, 2000

TO: All Agencies

FROM: Procurement Officer

SUBJECT: Change No. 1
           SPO Price List No. 00-18 (Statewide)
           Fujitsu Sonet and Related Equipment
           IFB-99-004-SW

           Effective July 5, 2000, the vendor name is changed to:

                   VERIZON HAWAII INC.

           Remittance address:

                   P.O. Box 630042
                   Dallas, TX 75263-0042

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                                    ROBERT J. GOVERNS, CPPB
                                    Procurement Officer

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STATE PROCUREMENT OFFICE

New SPO PRICE LIST NO. 00-18
(Statewide)

FUJITSU SONET AND RELATED EQUIPMENT
December 1, 1999 to November 30, 2001
(IFB-99-004-SW)

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PURCHASE ORDERS

Purchase Orders for items listed shall be placed with the following vendors.

Agencies are instructed to obtain the appropriate Vendor Codes for remittance purposes from the "Alphabetical Vendor-Edit Table Report" available at your department's fiscal office, and annotate the vendor code on the purchase order.

VENDOR/ADDRESS   CONTACT/PHONE/FAX

GTE Hawaiian Telephone Company Inc.   Mr. Darryl Wong
P.O. Box 2200   (808) 546-1741
Honolulu, HI 96841   (808) 546-8288 (Fax)

Agencies are advised to retain this Price List for future reference to specific terms and conditions.

UNIT PRICES

Unit Prices shown on this price list include delivery to destination to designated agencies statewide and shall include all applicable costs and taxes except for the Hawaii General Excise Tax, currently 4%. The amount of General Excise Tax may be added to the invoice as a separate line item and shall not exceed the current rate.

"SPO PRICE LIST NO. 00-18" should be noted on purchase orders issued against this price list.

PRICING INFORMATION AND ADJUSTMENT

No price increase will be allowed during the contract term or extension, however in the event of a general price decline, the State will be entitled to reductions given to similar customers. Contractor shall notify the State within five (5) business days of any price decline.

EXCEPTIONS TO PURCHASE OFF THE PRICE LIST

Pursuant to Section 3-121-6 HAR, it is mandatory that all agencies of the Executive Branch, including the University of Hawaii, purchase from price lists issued by the State Procurement Office. In addition, the Chief Procurement Officers of the Department of Education and the Judiciary have also agreed and committed to this price list. However, if the quality level or product design of listed items are not suited to an agency's purposes, an exception to this commitment may be granted. Individual CPOs may elect not to extend their commitment to this contract beyond the initial contract term specified herein. To obtain an exception, Executive Branch agencies, excluding the University of Hawaii, must submit SPO Form-5, *Request for Authorization to Purchase Outside of the State Procurement Office Price List*, justifying the exception.

OTHER SPECIFICATIONS

A. PROVEN EQUIPMENT: The proposed equipment and features of the HAWAIIAN must be presently implemented and operational in production environments at commercial and/or government sites.

B. OTHER REQUIREMENTS: Contractor must warrant that the equipment and any replacements and/or enhancements will operate with the State's current networks. Failure of any of the equipment, replacements and/or enhancements to operate with the State's current network may result in, at the State's option, removal by Contractor of the equipment at no cost to the State.

C. OPERATIONAL ENVIRONMENT: The equipment must operate and maintain specified performance while operating within certain ranges:

>   Ambient Temperature   0 - 50°C
>   Relative Humidity   5 – 95% (non-condensing)

D. POWER REQUIREMENTS: The State uses 110 VAC or 208 VAC, and 60 Hz.

E. MANDATORY SUPPORT REQUIREMENTS: All equipment obtained under this PL shall be installed at locations designated by the State.

1. In order for the State to determine site power and air conditioning needs: Contractor shall specify the power and air conditioning requirements for each piece of equipment to be installed upon request by the State. The information provided shall include, but not be limited to the following:

- Line Voltage – tolerance, phase
- Line Frequency – tolerance
- Line Current – maximum starting and operating
- Power Factor
- Required Supply Circuit – circuit breaker capacity requirement
- BTU/HR – operating and standby

- Power Cord – maximum length, number of gauge or wires, receptacle type
- Other Requirements – equipment grounding requirements

The State shall make the final determination regarding the power, cooling, and floor space that is made available for the proposed equipment.

2. Contractor must specify the floor space requirements for the proposed HAWAIIAN system components upon request by the State. When applicable, standard 19-inch cabinets must be utilized. The State shall acquire these cabinets, which are not a part of this PL.

3. In order for the State to effectively control its combined resources, Contractor shall provide technical guidance, training, and assistance in:

   a. Installation planning advice including physical environment and site preparation and installation coordination to minimize system and equipment service outages and reduce the disruption of normal operations.

   b. Direct support of the installation, testing, and implementation of Contractor's public domain and proprietary software; provide backup technical assistance to resolve problems encountered in using the delivered software.

F. TECHNICAL ASSISTANCE: Contractor shall maintain technical support personnel after the installation to assist the State in answering questions pertaining to equipment operations with the components of the HAWAIIAN.

   1. System Specialist – A system specialist shall be available to the State at no additional cost. The specialist shall be available to the State to assist in performance analysis and tuning and to assist in analysis of utilization and resource requirements.

   2. Operations Specialist – An operations specialist shall be available to the State at no additional cost. This specialist shall be available on-site within one (1) week's notice to the local maintenance office.

G. CABLE INSTALLATION AND CONNECTIONS: Cabling responsibilities include the actual laying of cables, tying cables neatly to racks, hook-up to equipment on both ends of the cable, and labeling of cables.

Contractor shall mark all cables (e.g. RS-232, V.35, twisted pair) in a manner that clearly indicates its type, associated circuit number, and use. Contractor shall provide a diagram of the cables.

Cabling to user equipment will be performed by Contractor, unless the State makes an exception to this on a case-by-case basis and notifies Contractor.

H. INSTALLATION OF EQUIPMENT: The State shall, at its expense, have the site prepared and ready for installation of the equipment. Contractor must provide preparation specifications in such detail and in such time as to allow the State sufficient time to have the site properly prepared.

"Installation" means the hookup or plug in of all electrical and other connections for each piece of equipment and proper attachment of any subassemblies to the equipment so that the equipment is operable and ready for use by the State.

The installation shall be scheduled for such times when there will be minimal disruption of normal work activities. Contractor shall be prepared to work at nights and on weekends if necessary and at no additional cost. Direct support in the installation and testing of Contractor's equipment will be provided by Contractor.

Contractor must notify the State of the date that the equipment is installed, working within manufacturer's specifications, and is ready for use. The Acceptance Period shall begin on that date.

I.   MAINTENANCE

1.   Contractor shall maintain an adequate inventory of spare and repair parts and such tools and instruments, as necessary, on the island of Oahu, to properly and efficiently maintain the equipment. Contractor shall arrange to have the appropriate repair parts and tools arrive with the technician to the neighbor islands upon receiving a maintenance call. Only new standard parts and parts of equal or better quality shall be used in effecting repairs.

2.   Contractor shall include in the offer a maintenance price covering all parts and labor on a yearly basis at a predetermined fee. The predetermined maintenance fees shall include all costs, including airfare, ground transportation, and any other costs including those associated with travel to the neighbor islands and twenty-four (24) hour phone support. Commencement of maintenance shall be at the State's option prior to expiration of the warranty period.

3.   Contractor's maintenance staff, including any third party support, shall be able to respond on an on-call basis, 24 hour a day, 7 days a week for 24 HOUR maintenance support. PRIME maintenance support requirements will be for support between 7:45 am to 4:30 pm, Monday through Friday, excluding State holidays. The following requirements apply to both 24 HOUR and PRIME maintenance support. The State requires that the maintenance staff call back within thirty (30) minutes after the initial trouble call. If the State requires on-site assistance, Contractor's maintenance staff shall respond within the following time frames:

- Two (2) hours on-site response from call back for Oahu.
- Four (4) hours on-site response from call back for neighbor islands, unless other arrangements have been made during the call back conversation, with the State's approval.

4.   For all HAWAIIAN components, the maintenance technician shall escalate the trouble call to the next higher level of maintenance support if the equipment cannot be repaired within four (4) hours of arrival at the site of the failing equipment.

5.   Contractor shall complete all repairs within twenty-four (24) hours of the initial trouble call. If the Contractor cannot comply, the Contractor must submit a

written request for extension including a written explanation for the delay to the State. State must approve this request for extension.

6.   For all HAWAIIAN components, Contractor shall have a point of contact and phone support through either a local or toll-free 1-800 number for technical assistance, available twenty-four (24) hours a day.

7.   The quality of maintenance service shall be of such quality that the equipment being maintained by Contractor will qualify for manufacturer's standard maintenance agreement at the end of any contract period.

8.   Maintenance services shall initially be for the locations and estimated quantities of the currently installed equipment listed in Appendix A. As new equipment is purchased or leased, maintenance services may be obtained for new equipment at the State's option at the prices quoted herein, after expiration of the warranty period.

LEASE

A.   The State shall have the option to lease all components and features listed herein on a lease plan for twelve (12) months.

B.   The lease payment plan shall neither include a down payment or deposit, nor will it include any balloon payment.

C.   The State shall be permitted, without penalty and at any time, to convert this lease plan to a purchase plan utilizing the purchase prices offered herein for the component(s) in question.

In the event that an upgrade is requested to any leased equipment by the State, the termination date for the lease of the upgrade will be the same as the original equipment which was leased.

D.   In the event that the State elects to exercise the purchase/buy-out option on the leased equipment, no penalty fees or surcharges will be assessed.

E.   The State shall own the equipment at the end of the lease term.

AMORTIZATION SCHEDULE FOR LEASES

Principal = $1.00
Interest = 11.16%
Term = Twelve (12) months

Monthly Lease Payment factor = .08845 (per $1.00 leased)

Buy Out Amount (per $1.00 of Original Purchase Price):	
MONTH	AMOUNT
0	$1.0000
1	$0.9208
2	$0.8409
3	$0.7603
4	$0.6789
5	$0.5968
6	$0.5139
7	$0.4302
8	$0.3457
9	$0.2605
10	$0.1745
11	$0.0876
12	$0.0000

EXAMINATION OF WORK SITE

The items requested in this PL will be installed in various office environments statewide, as requested by State user agencies during the price list term. Contractor may, upon request, examine the work site of the user agency prior to delivery and installation of the ordered products.

No extra compensation or extension of time will be allowed by reason of Contractor's misunderstanding or lack of knowledge of the requirements of the work to be accomplished or the conditions to be encountered in performing the work.

DELIVERY AND ACCEPTANCE

The equipment shall be delivered within sixty (60) calendar days after receipt of purchase order to the location of the ordering State agency during normal State work days and hours (Mondays through Fridays, excluding State and Federal holidays, between 7:45 am and 4:30 pm) unless otherwise directed by the ordering State agency. Contractor shall indicate the State purchase order number on the shipping document. Prior to delivery, Contractor shall contact the person responsible for the order to coordinate the delivery.

Upon delivery, the State shall have the right to inspect the equipment to satisfy itself as to the condition of the equipment. Final acceptance shall be given in accordance with the following requirements:

A.   Contractor agrees to demonstrate that its proposed equipment will perform as documented in this specification and the manufacturer's official published specifications. Failure of the equipment and system to meet the documented specification may result in, at the State's option, removal of the equipment and system at no expense to the State and with no liability to either party.

B.   In addition to the above, during the installation procedures, Contractor will perform all other diagnostic routines normally run on a system of this nature and turn the equipment over to the State in a certified and good working order.

C.   The Acceptance Period shall begin on the first day following notification that the equipment is installed and ready for use. The State's Acceptance Period shall consist of operating the equipment in conformance with the manufacturer's published performance specifications and capabilities that meets the technical specifications as stated in the IFB. Equipment shall be operating continuously without error for thirty (30) days.

D.   Equipment shall not be accepted by the State and no charges will be paid by the State until the equipment has satisfactorily passed the Acceptance Period.

LOADING, CRATING, AND SKIDDING

All loading, crating, and skidding used in the shipment of the equipment shall be the property of Contractor. Contractor shall remove these materials at the conclusion of installation.

QUALITY OF EQUIPMENT

A.   Contractor shall pre-test the equipment in the manufacturer's location for a period of 48 hours prior to shipping to verify product operability. All equipment supplied shall be labeled and/or embossed with the manufacturer's name, logo, serial number, and/or part number. Only new equipment or equipment of equal or better quality shall be sold to and installed for the purchasing agency. It shall be free from defects which may render it unfit for use. Damaged or rejected items must be with notice to Contractor from the ordering agency, removed from the site and replaced within five (5) working days with items of the qualify required by these specifications.

B.   Failure to replace or to remove any rejected item shall not relieve Contractor from the responsibility imposed upon it by the Contract.

C.   No payment, whether partial or final, shall be construed to be an acceptance of defective materials. Contractor shall be liable for latent defects, fraud, or gross misrepresentations that amount to fraud.

D.   The State may, at any time, be written order, stop the delivery of equipment not conforming to these specifications. Such stop order shall not relieve Contractor of its obligation to complete the Contract within the contract time limits, nor shall it any way terminate, cancel, or abrogate the Contract or any part thereof.

WARRANTY

A. Contractor shall replace any defective workmanship and/or material at no cost to the State for parts and labor during the warranty period which must be a minimum of one year or as specified in the manufacturer's warranty whichever is longer, provided such defects are not due to abuse or negligence on the part of the State.

B. The equipment shall be maintained by the manufacturer or its designated representative during the warranty period; third-party maintenance is not acceptable during this period.

SOFTWARE LICENSE

The following terms and conditions shall apply to computer programs, including microcode, and related documentation, hereinafter referred to as "SOFTWARE" , delivered with the hardware.

A. Grant of License

    1. Contractor grants to State, for the term of contract described herein, extended term plan license (including any provisions made under the Software Warranties or Software Maintenance sections of these Special Provisions) for State users to use SOFTWARE. Contractor shall make available to State a copy of the object code and documentation relating thereto, and such other information as is deemed necessary to assist State in the use of SOFTWARE. State's rights under this Contract shall not be assigned, sublicensed, or otherwise encumbered or transferred by State except with the prior written consent of Contractor.

    2. Title in, and ownership of SOFTWARE, shall remain at all times with Contractor.

B. Software Warranties

Contractor warrants that it has full power and authority to grant the rights herein described. Contractor's obligation and liability under this Section shall be to obtain any authorization necessary to make effective the grant of license to State to use SOFTWARE, in such manner or method as determined by Contractor and acceptable to State, at Contractor's own cost and expense.

Contractor warrants that SOFTWARE will conform with the published product specifications in effect at the effective date of this Contract. Contractor further warrants that, for the warranty period of one year from the date of acceptance of SOFTWARE, in its unaltered form, will perform substantially in accordance with the documentation. Contractor does not warrant that the operation of SOFTWARE will be error free. Contractor's obligation and liability under this Section shall be to replace or correct SOFTWARE so that will so perform. In its obligation to correct SOFTWARE, Contractor will also provide assistance and consultation to State, at no additional charge to State, for problem determination and resolution with the use of SOFTWARE. This will include diagnosis and verification of problems, and correcting errors and defects in SOFTWARE.

Software maintenance will be provided by Contractor during the warranty period at no additional charge to the State. Maintenance for SOFTWARE after the expiration of the warranty period shall be governed by the Software Maintenance section.

State's sole and exclusive remedies for damage or loss (except personal injury or property damage) during the warranty period arising from use of SOFTWARE, contractor services, or breach of warranty shall be the repair or replacement of SOFTWARE. In the event that repair or replacement is not possible within thirty (30) days of written notification by State identifying the damage or loss to Contractor, State may cancel this SOFTWARE license and shall be entitled to a pro rata refund of the license fee plus a pro rata portion of any current maintenance fee paid by State. Contractor shall have no liability or responsibility for problems in SOFTWARE caused by alteration or modification by State not authorized by Contractor, or for problems arising out of the malfunction of State's equipment or other software not supplied by Contractor.

C.   Use and Protection of Software

SOFTWARE shall be installed on the equipment and shall be used by State, its authorized employees, consultants, and subcontractors under contract to State, working solely for the benefit of State, and those Private Agencies authorized to access SOFTWARE. State's sole responsibility for consultants and subcontractors on contract to State will be limited to that outlined in this section. State shall not permit or provide for transfer or reproduction of SOFTWARE, or any portion thereof, to be placed on a computer except for backup purposes during temporary outages, by physical or electronic means, unless specifically authorized by Contractor in writing. State shall not make or allow others to make copies or reproductions of SOFTWARE, or any portion thereof, or documentation in any form without the prior written consent of Contractor.

Except as expressly stated herein, State may not alter, modify, or adapt SOFTWARE and documentation, including but not limited to translating, reverse engineering, decompiling, disassembling, or creating derivative works, and may not take any other steps intended to produce a source language Statement of SOFTWARE or any part thereof without Contractor's prior express written consent, which shall not be unreasonably withheld.

State will be the sole owner of all codes developed or generated specifically by or for State through the use of SOFTWARE, provided that such codes contain no source or object codes of SOFTWARE under this Contract. Further, State will be the sole owner or custodian of data transmitted, received, or manipulated by the SOFTWARE.

State is authorized to copy and use SOFTWARE for backup, archival, and disaster recovery purposes. SOFTWARE may be used on a backup equipment whenever the State's equipment is temporarily inoperable, until such equipment is restored to operation. SOFTWARE may be used on a backup equipment concurrently for up to one (1) month for disaster recovery testing per year and for any period for actual disaster recovery.

State shall keep confidential all SOFTWARE documentation whether or not protected by copyright. State will reasonably protect such information and at a minimum provide the same safeguards afforded its own like confidential information. Contractor will keep confidential all information to which it has access in the performance of this Contract. Confidential information shall not include information in the public domain, information already rightfully in the possession of the other party without any obligation to keep it confidential, information obtained from another source without obligations of confidentiality, information independently developed, or information required by a court or government order or applicable law.

D.   Software Maintenance

Software maintenance shall include new versions, new releases, modifications, corrections, additions, replacements, and enhancements to SOFTWARE and its documentation.   New versions shall mean improvements or changes to SOFTWARE that require substantial or complete replacement to any or all of it components.   New releases shall mean changes to SOFTWARE that are not as extensive as those of a new version.   Maintenance shall also include any modifications that improve the reliability, or improve or enhance the capabilities of SOFTWARE developed by Contractor and made available to Contractor's licensed software user base as part of maintenance.

Software maintenance shall also include assistance and consultation by phone and/or in person to assist State in resolving problems with the use of SOFTWARE, including the verification, diagnosis, and correction of material errors and defects in SOFTWARE. Contractor shall also inform State of errors or "bugs" discovered in SOFTWARE and any changes or improvements which will assist State in improving and operating SOFTWARE. State reserves the right to implement those changes it feels will adversely affect its end users on a schedule complying with State's requirements for maximizing the operational availability of the system.

Contractor assumes all risks for injuries to or death of its employees and for damage to its property while on the premises of, or travelling to or from, State's general offices.

Prior releases of SOFTWARE shall be maintained for at least twelve (12) months following a new release. Contractor shall make every commercially reasonable effort to notify State within thirty (30) days of the announcement of the new release.

All requests for assistance to Contractor by State to resolve problems arising from the use of the SOFTWARE must be acknowledged by phone within two (2) hours for problems which cause the SOFTWARE to become inoperative.   For less severs problems, Contractor must acknowledge phone problems within twenty-four (24) hours.

Contractor shall complete all repairs within forty-eight (48) hours of the initial trouble call. If the Contractor cannot comply, the Contractor must submit a written request for extension including a written explanation for the delay to the State. State must approve this request for extension.

E.   System Generation Assistance

Contractor shall be responsible for applying corrective maintenance to SOFTWARE or upgrading SOFTWARE to latest current version or release of SOFTWARE in accordance with its current Contract obligations. Contractor shall also be responsible to provide assistance to State in changing the configuration of any component of the system.

LIQUIDATED DAMAGES

Liquidated damages are fixed at the sum of FIFTY DOLLARS ($50.00) for each and every work day the Contractor delays in the completion of any item of its contract after the required date of said completion.

ORDERING

The equipment and/or options required from time to time during the period of this contract by the several departments, agencies, boards and commissions of the Executive Branch of the State shall be ordered in writing form the Contractor on Purchase Order forms supplied for the purpose by the State. Delivery shall be made on any such order within the number of calendar days specified in the IFB.

INVOICING

Contractor shall forward an original and three copies of the invoice directly to the ordering agencies.

SERVICE AND PARTS FACILITY

Address, telephone number, and contact person's name for the service and parts facility:

Subcontractor Name:	Fujitsu Systems Business of America
Address:	560 N. Nimitz Highway, Suite 214
	Honolulu, HI 96817
Telephone Number:	(808) 524-7786
	(808) 524-7994 (fax)

PRICE LIST AVAILABLE ON HAWAII FYI

Agency with a computer and modem may retrieve a copy of this price list via the State's **Hawaii FYI** electronic gateway by dialing the following modem number:

Hawaii	974-6640
Kauai	274-3600
Maui	984-2000
Oahu	587-4800

At the main menu select *Hawaii Internet Services Menu*, then click on *State Price Lists* for the current listing. If assistance is required to access Hawaii FYI, call the ICSD Assistance Center at 586-1919 from Oahu and 1-800-252-1132 from the neighbor islands.

This price list is also available on the Internet at
"**http://www.hawaii.gov/icsd/dags/prices/pricelst.html**".

INQUIRIES

QUESTIONS relating to this price list may be directed to Ms. Karen Higa of the Information and Communication Services Division, telephone (808) 586-1920.

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ROBERT J. GOVERNS, CPPB
Procurement Officer

| **GROUP I: PURCHASE** |

Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)		Installation Price ($)
3.1 FACTR								
CMS Common Plug-in Units								
3.1.1	Shelf	SF1C	FACTR Common Shelf			No Longer Available From Manufacturer		
Replaces 3.1.1	Shelf	HA15B-0001-B247	FACTR Common Shelf	$ 1,374.00	33.16%	$ 918.40	$	158.40
3.1.2	PW1C	PW1C	Power unit for CMS	$ 538.00	47.17%	$ 284.20	$	49.50
3.1.3	SV1C	SV1C-PB	Supervisory (OS) interface for TL1/ X.2 5; user TL1 commands, FLEXR	$ 1,610.00	14.61%	$ 1,374.80	$	236.50
3.14		SV1C-PB2	Supports SV1C-PB features, Data Communication Channel (DCC) access, and processing of the SONET overhead for the high-speed line	$ 1,610.00	14.61%	$ 1,374.80	$	236.50
3.15		SV1C-DL1	Supervisory- TL1/ X.25, user TL1 commands, supports software download, FLEXR			No Longer Available From Manufacturer		
3.16		SV1C-DL2	Supports SV 1C-PB features and Local Communication Network (LCN) based OSS interface	$ 2,102.00	47.05%	$ 1,113.00	$	191.40
3.1.7	MP1C	MP1C-BSC	Main CPU for SONET portion	$ 1,127.00	14.53%	$ 963.20	$	166.10
3.1.8		MP1C-DL1	Main CPU for SONET portion, supports software download			No Longer Available From Manufacturer		
3.1.9		MP1C-DL2	Supports MP1C-DL1 features and Local Communication Network (LCN) based OSS interface	$ 1,620.00	47.02%	$ 858.20	$	148.50
3.1.10	EM1C	EM1C-BSC	Main CPU for DLC portion (TR-008)	$ 1,253.00	14.64%	$ 1,069.60	$	184.80
3.1.11		EM1C-DL1	Main CPU for DLC portion (TR-008)	$ 1,416.00	47.01%	$ 750.40	$	129.80
3.1.12	AW1C	AW1C-BSC	Alarm unit	$ 526.00	59.28%	$ 214.20	$	37.40
3.1.13		AW1C-ENH	Alarm and orderwire unit	$ 2,575.00	14.59%	$ 2,199.40	$	378.40
3.1.14		AW1C-ENH2	Supports AW1C-BSC features, and two and four wire voice frequency extension	$ 2,775.00	20.74%	$ 2,199.40	$	378.40
3.1.15	TC1C	TC1C	Timing control unit external timing input available	$ 526.00	52.36%	$ 250.60	$	44.00
3.1.16		TC1C-ENH	Support TC1C features and synchronization messaging	$ 1,159.00	-0.86%	$ 1,169.00	$	201.30
3.1.17	TS1C	TS1C-NB	Time slot assignment unit, serves first 960 subscriber lines (TR-008 modes I, II, & III)	$ 1,682.00	36.74%	$ 1,064.00	$	183.70
3.1.18		TS1C-NE2	Time slot assignment unit, serves first 960 subscriber lines (TR-008 modes I, II, & III) TR-303 4:1 TDM support	$ 1,682.00	72.53%	$ 462.00	$	80.30

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -1

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE					
Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)		Installation Price ($)
3.1.19	EX1C	EX1C-NB	Time slot assignment unit, serves second 960 subscriber lines (TR-008 modes I, II, & III)	$ 5,026.00	14.60%	$ 4,292.40	$	738.10
3.1.20		EX1C-NE2	Time slot assignment unit, serves second 960 subscriber line (TR-008 modes I, II, & III) TR-303 4:1 TDM support	$ 5,026.00	9.83%	$ 4,531.80	$	779.90
3.1.21	MC1C	MC1C-AS	VT & DS1 termination for NBS/NFS SERVICES (Async)	$ 2,221.00	36.71%	$ 1,405.60	$	242.00
3.1.22		MC1C-AS2	Supports MC1C-AS features. Supports TR-008 and TR-303	$ 2,221.00	70.25%	$ 660.80	$	114.40
3.1.23		MC1C-APU	Provides ATM datapath and supervisory functions for FASTLANE subsystem. For DS3 UNI, provides traffic management	$ 7,386.00	66.90%	$ 2,444.40	$	420.20
3.1.24		MC1C-2ET1	Provides up to two Ethernet ports to be ATM mapped into an STS-1 for transport across a SONET network	$ 3,650.00	-1.26%	$ 3,696.00	$	635.80
3.1.25		MC1C-4ET1	Provides up to four Ethemet ports to be ATM mapped into an STS-1 for transport across a SONET network	$ 5,638.00	4.80%	$ 5,367.60	$	922.90
3.1.26		MC1C-MDM	Multiplexes/ Demultiplexes one STS-1 to 7 VT groups for DS1 extensions from the CMS Protected	$ 1,894.00	-40.00%	$ 2,651.60	$	456.50
3.1.27		MC1C-D3	Provides DS3 extensions from the CMS pROTEC	$ 1,966.00	14.62%	$ 1,678.60	$	289.30
3.1.28		MC1C-M3A2	Supports MC1C-D3 features, enhanced Performance Monitoring, and PSWOPT	$ 1,966.00	14.62%	$ 1,678.60	$	289.30
3.1.29		MC1C-D3U	Provides two ports of ATM UNI	$ 7,106.00	19.42%	$ 5,726.00	$	984.50
3.1.30		MC1C-STS1	Provides STS-1 extensions from the CMS	$ 2,541.00	14.60%	$ 2,170.00	$	374.00
3.1.31		MC1C-ST1P	Supports MC1C-STS1 features, Payload Label Mismatch (PLM) and Payload Defect Indicator (PDI)	$ 2,541.00	14.60%	$ 2,170.00	$	374.00
3.1.32		MC1C-MRx1 MC1C-MRC1 (SC Connector) MC1C-MRD1 (D4 Connector) MC1C-MRF1 (FC Connector) MC1C-MRT1 (ST Connector)	Provides middle reach OC-3 extensions from the CMS. Note values for 'x' in Unit Type field	$ 3,643.00	14.61%	$ 3,110.80	$	535.70

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -2

SPO Price List No. 00-18
12/1/99 to 11/30/01

GROUP I: PURCHASE							
Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)	Installation Price ($)
3.1.33		MC1C-TMD3	Demultiplexes the DS3 signals into DS I signals, then maps them to VT1.5 rate signals. STS-1 signals are demapped to DS3 signals.	$ 9,554.00	37.69%	$ 5,952.80	$ 1,024.10
3.1.34		MC1C-TME1	Demultiplexes the DS3 payload into DS1 rate signals. Maps the DSI signals to the VTI.5 rate signals.	$ 9,554.00	37.69%	$ 5,952.80	$ 1,024.10
3.1.35	CC1C	CC1C-BSC	Call control unit, TR-008, Mode II only	$ 877.00	52.11%	$ 420.00	$ 72.60
3.1.36		CC1C-ENH	Call control unit, supports TR-008 Mode II & TR-303, supports Time-slot Management Channel (TMC), Supports software download			No Longer Available From Manufacturer	
3.1.37		CC1C-DL1	Call control unit, supports TR-008 Mode II & TR-303, supports Time-slot Management Channel (TMC), Supports software download	$ 877.00	84.36%	$ 137.20	$ 24.20
3.1.38	MA1C	MA1C-ENH	Metallic Access (CMS) Basic Unit	$ 752.00	46.57%	$ 401.80	$ 69.30
3.1.39		MA1C-DL1	Supports MA1C-ENH features, software download, and remote memory backup	$ 634.00	69.09%	$ 196.00	$ 34.10
3.1.40	DP1C	DP1C	Display (CMS) Unit	$ 202.00	22.38%	$ 156.80	$ 27.50
3.1.41	XT1C	XT1C-BSC	Extended Test (CMS) Basic Unit	$ 1,127.00	14.53%	$ 963.20	$ 166.10
3.1.42		XT1C-ENH	Supports XT1C-BSC features and ISDN local test access	$ 1,925.00	37.67%	$ 1,199.80	$ 206.80
3.1.43	EP1C	EP1C-DL1	EOC processor in TR-303 mode (CMISE with SW/DL)	$ 3,584.00	87.27%	$ 456.40	$ 79.20
CMS Transport Plug-in Units							
3.1.44	LC1A	LC1A-D1	Low-speed 4xDS1	$ 742.00	47.17%	$ 392.00	$ 68.20
3.1.45		LC1A-D1E	Enhanced Low-speed 4xDS1			No Longer Available From Manufacturer	
3.1.46		LC1A-D1E2	Enhanced Low-spccd 4xDS1	$ 1,500.00	35.97%	$ 960.40	$ 166.10
3.1.47		LC1A-F6	Low-speed OVTG	$ 3,225.00	33.97%	$ 2,129.40	$ 366.30
3.1.48		LC1A-F6x1 LC1A-F6C1 (SC Connector) LC1A-F6T1 (ST Connector) LC1A-F6D1 (D4 Connector)	NOTE: Values for 'x' in Unit Type field	$ 3,225.00	33.97%	$ 2,129.40	$ 366.30
3.1.49	LS1A	LS1A-D1	LC1A protection switching	$ 514.00	38.99%	$ 313.60	$ 55.00
3.1.50	EC1C	EC1C	Control SONET DCC for BT1C tributary in OC-12	$ 2,372.00	14.60%	$ 2,025.80	$ 348.70
3.1.51		EC1C-DL1	Control SONET DCC for BT1C tributary in OC-12, supports software download	$ 2,863.00	14.57%	$ 2,445.80	$ 421.30

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -3

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	**Slot**	**Unit Type**	**Description**	**Manufacturer List Price($)**	**% of List**	**Purchase Price ($)**	**Installation Price ($)**
3.1.52	BT1C	BT1C-D3	Provides DS3 extensions from the CMS, used in OC-12 systems	$ 2,395.00	-40.00%	$ 3,353.00	$ 576.40
3.1.53		BT1C-STS1	Provides STS-1 extensions from the CMS, used in OC-12 systems	$ 2,626.00	14.59%	$ 2,242.80	$ 386.10
3.1.54		BT1C-ST1P	Supports BT1C-STS features, Payload Label Mismatch (PLM) and Payload Defect Indicator (PDI)	$ 2,626.00	14.59%	$ 2,242.80	$ 386.10
3.1.55		BT1C-3Mx1	Provides middle reach OC-3 extensions from the CMS, used in OC-12 systems. Note: Values in 'x'			No Longer Available From Manufacturer	
3.1.56		BT1C-3Lx1	Provides long reach OC-3 extensions from the CMS, used in OC-12 systems			No Longer Available From Manufacturer	
Replaces 3.1.55 and 3.1.56		BT1C-MRx1 BT1C-MRF1 (FC Connector) BT1C-MRC1 (SC Connector) BT1C-MRT1 (ST Connector)	Broadband Trib Unit: Optical OC-3 (3 x STS-1) middle reach trib per unit:(FC, ST, SC, D4 conn); UNEQ path switch; adds PDI/PLM; 1:1 protection; 6 max/system, in MSG 6,7,8;;1 required per OC-3 trib; OC-12 UPSR configurations only.	$ 3,643.00	14.61%	$ 3,110.80	$ 535.70
3.1.57	TS1A	TS1A-ENH	Same as TA1C plus performs path selections and groom into STS-1	$ -		$ -	$ -
Corrects Description 3.1.57	TS1A	TS1A-ENH	Automatic synchronization switching (NE/derived DS1 primary/derived DS1 secondary reference) by synchronization message; SONET timing can be extracted from the BT1C units	$ 6,095.00	50.87%	$ 2,994.60	$ 514.80
Additional Part (Item 3.1.57)	TS1A	TS1A-ENH2	Same as TC1C-ENH plus: Provides the VT1.5 to STS-1 Hairpinning Cross-Connect function; Provides Path Switching criterion; Supports PDI/PLM	$ 9,692.00	48.42%	$ 4,999.40	$ 860.20
3.1.58	HS1A	HS1A-AD2	High speed line & unit protection switch	$ 1,114.00	35.03%	$ 723.80	$ 125.40
3.1.59	HS1C	HS1C	High speed line and unit protection switch for OC-12	$ 2,044.00	59.73%	$ 823.20	$ 141.90
3.1.60	HC1A	HC1A-3MR1 (FC Connector)	High speed OC-3 Intermediate Reach, 1310 nm	$ 2,515.00	31.61%	$ 1,720.00	$ 295.62
3.1.61		HC1A-3MC1 (SC Connector)	High speed OC-3 Intermediate Reach, 1310 nm, SC Connector	$ 2,515.00	23.01%	$ 1,936.20	$ 333.30
3.1.62		HC1A-3MT1 (ST Connector)	High speed OC-3 Intermediate Reach, 1310 nm, ST Connector	$ 2,515.00	23.01%	$ 1,936.20	$ 333.30
3.1.63		HC1A-3MD1 (D4 Connector)	High speed OC-3 Intermediate Reach, 1310 nm, D4 Connector	$ 2,515.00	23.01%	$ 1,936.20	$ 333.30

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -4

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	**Slot**	**Unit Type**	**Description**	**Manufacturer List Price($)**	**% of List**	**Purchase Price ($)**	**Installation Price ($)**
3.1.64		HC1A-3LR1 (FC Connector)	High speed OC-3 Long Reach, 1310 nm, FC Connector	$ 3,434.00	50.20%	$ 1,710.00	$ 293.90
3.1.65		HC1A-3LC1 (SC Connector)	High speed OC-3 Long Reach, 1310 nm, SC Connector	$ 3,434.00	46.02%	$ 1,853.60	$ 319.00
3.1.66		HC1A-3LT1 (ST Connector)	High speed OC-3 Long Reach, 1310 nm, ST Connector	$ 3,434.00	46.02%	$ 1,853.60	$ 319.00
3.1.67		HC1A-3LD1 (D4 Connector)	High speed OC-3 Long Reach, 1310 nm, D4 Connector	$ 3,434.00	46.02%	$ 1,853.60	$ 319.00
3.1.68		HC1A-3LR2 (FC Connector)	High speed OC-3 Very Long Reach, 1550 nm, Non-hardened	$ 12,769.00	15.01%	$ 10,852.80	$ 1,865.60
3.1.69		HC1A-3LC2 (SC Connector)	High speed OC-3 Very Long Reach, 1550 nm, SC Connector	$ 12,769.00	15.01%	$ 10,852.80	$ 1,865.60
3.1.70		HC1A-3LT2 (ST Connector)	High speed OC-3 Very Long Reach, 1550 nm, ST Connector, Non-hardened	$ 12,769.00	15.01%	$ 10,852.80	$ 1,865.60
3.1.71		HC1A-3LD2 (D4 Connector)	High speed OC-3 Very Long Reach, 1550 nm, D4 Connector, Non-hardened	$ 12,769.00	15.01%	$ 10,852.80	$ 1,865.60
3.1.72		HC1A-3LR3 (FC Connector)	High speed OC-3 Long Reach, Non-hardened	$ 2,336.00	18.85%	$ 1,895.60	$ 326.70
3.1.73		HC1A-3LC3 (SC Connector)	High speed OC-3 Long Reach, 1310 nm, ST Connector, Non-hardened	$ 2,336.00	18.85%	$ 1,895.60	$ 326.70
3.1.74		HC1A-3LT3 (ST Connector)	High speed OC-3 Long Reach, 1310 nm, ST Connector, Non-hardened	$ 2,336.00	18.85%	$ 1,895.60	$ 326.70
3.1.75		HC1A-3LD3 (D4 Connector)	High speed OC-3 Long Reach, 1310 nm, D4 Connector, Non-hardened	$ 2,336.00	18.85%	$ 1,895.60	$ 326.70
3.1.76		HC1A-3SR1 (FC Connector)	High speed OC-3 Short Reach, 1310 nm, FC Connector, Non-hardened	$ 1,797.00	19.76%	$ 1,442.00	$ 248.60
3.1.77		HC1A-3SC1 (SC Connector)	High speed OC-3 Short Reach, 1310 nm, SC Connector, Non-hardened	$ 1,797.00	19.76%	$ 1,442.00	$ 248.60
3.1.78		HC1A-3ST1 (ST Connector)	High speed OC-3 Short Reach, 1310 nm, ST Connector, Non-hardened	$ 1,797.00	19.76%	$ 1,442.00	$ 248.60
3.1.79		HC1A-3SD1 (D4 Connector)	High speed OC-3 Short Reach, 1310 nm, D4 Connector, Non-hardened	$ 1,797.00	19.76%	$ 1,442.00	$ 248.60
Additional Part (Item 3.1.79)	HC1C	MC6A-31FA (FC Connector)	HS Optical 1x OC-3 intfc (1310 nm)Protected 1+1; short Reach Multi-Mode fiber capability; FC CONNECTOR	$ 2,908.00	27.98%	$ 2,094.40	$ 360.80
Additional Part (Item 3.1.79)	HC1C	MC6A-31CA (SC Connector)	HS Optical 1x OC-3 intfc (1310 nm)Protected 1+1; short Reach Multi-Mode fiber capability; SC CONNECTOR	$ 2,908.00	27.98%	$ 2,094.40	$ 360.80

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -5

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	**Slot**	**Unit Type**	**Description**	**Manufacturer List Price($)**	**% of List**	**Purchase Price ($)**	**Installation Price ($)**
Additional Part (Item 3.1.79)	HC1C	MC6A-31TA (ST Connector)	HS Optical 1x OC-3 intfc (1310 nm)Protected 1+1; short Reach Multi-Mode fiber capability; ST CONNECTOR	$ 2,908.00	27.98%	$ 2,094.40	$ 360.80
Additional Part (Item 3.1.79)	HC1C	MC6A-31DA (D4 Connector)	HS Optical 1x OC-3 intfc (1310 nm)Protected 1+1; short Reach Multi-Mode fiber capability; D4 CONNECTOR	$ 2,908.00	27.98%	$ 2,094.40	$ 360.80
3.1.80	HC1C	HC1C-6LR1	High speed OC-12 Long Reach, 1310 nm, FC Connector	$ 15,246.00	40.31%	$ 9,100.00	$ 1,564.20
3.1.81		HC1C-6LC1	High speed OC-12 Long Reach, 1310 nm, SC Connector	$ 15,246.00	40.31%	$ 9,100.00	$ 1,564.20
3.1.82		HC1C-6LT1	High speed OC-12 Long Reach, 1310 nm, ST Connector	$ 15,246.00	40.31%	$ 9,100.00	$ 1,564.20
3.1.83		HC1C-6LD1	High speed OC-12 Long Reach, 1310 nm, D4 Connector	$ 15,246.00	40.31%	$ 9,100.00	$ 1,564.20
NBS Common Plug-in Units							
3.1.84	Shelf	SF-1N	FACTR Narrowband Shelf			No Longer Available From Manufacturer	
Replaces 3.1.84	Shelf	HA15B-0001-B248	FACTR Narrowband Shelf	$ 988.00	42.19%	$ 571.20	$ 99.00
3.1.85	PW1N	PW1N (COT or RT)	Power unit for NBS	$ 408.00	57.11%	$ 175.00	$ 30.80
3.1.86	AT1N	AT1N-C	Alarm Control/ Test for COT	$ 1,081.00	14.65%	$ 922.60	$ 159.50
3.1.87		AT1N-R2	Alarm Control/ Test for RT: TR-303	$ 805.00	32.00%	$ 547.40	$ 94.60
3.1.88		AT1N-RE	Supports TSC/TRU test interface			No Longer Available From Manufacturer	
Replaces 3.1.88		AT1N-RE2	Supports TSC/TRU test interface	$ 1,462.00	29.14%	$ 1,036.00	$ 178.20
3.1.89	MD1N	MD1N	Mux/Demux units			No Longer Available From Manufacturer	
Replaces 3.1.89	MD1N	MD1N2	Mux/Demux unit; Adds TR-303	$ 876.00	42.47%	$ 504.00	$ 86.90
FACTR Channel Plug-in Units							
3.1.103	CH	POTS (COT)	POTS Channel Unit - COT	$ 200.00	14.60%	$ 170.80	$ 29.70
3.1.104		POTS (RT)	POTS Channel Unit - RT	$ 200.00	14.60%	$ 170.80	$ 29.70
3.1.105		POTS (S)	TR-909 Compliant POTS Unit			Not An Available Product	
3.1.106		Q-POTS (COT)	Quad POTS Channel Unit - COT	$ 409.00	14.77%	$ 348.60	$ 60.50
3.1.107		Q-POTS (RT)	Quad POTS Channel Unit - RT	$ 403.00	26.35%	$ 296.80	$ 51.70
3.1.108		Q-POTS (S)	TR-909 Compliant Quad POTS Unit			Not An Available Product	
3.1.109		UVC1 (COT)	POTS Channel Unit - COT	$ 304.00	8.82%	$ 277.20	$ 48.40
3.1.110		UVC1 (RT)	Universal Channel Unit 1 - RT	$ 322.00	9.13%	$ 292.60	$ 50.60
3.1.111		Q-UVC1 (COT)	POTS Channel Unit - COT	$ 530.00	14.68%	$ 452.20	$ 78.10
3.1.112		Q-UVC1 (RT)	Universal Voice Channel Unit I - RT	$ 561.00	14.65%	$ 478.80	$ 82.50

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -6

SPO Price List No. 00-18
12/1/99 to 11/30/01

GROUP I: PURCHASE							
Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)	Installation Price ($)
3.1.113		COIN (COT)	Coin Channel Unit (COT)	$ 349.00	14.56%	$ 298.20	$ 51.70
3.1.114		COIN (RT)	Coin Channel Unit (RT)	$ 584.00	14.66%	$ 498.40	$ 85.80
3.1.115		VUC2-A	Universal Voice Channel Unit 2-A	$ -		$ -	$ -
Corrects Unit Type 3.1.115		UVC2A	Universal Voice Channel Unit 2-A	$ 631.00	48.75%	$ 323.40	$ 56.10
3.1.116		UVC2-B	Universal Voice Channel Unit 2-B	$ 623.00	50.11%	$ 310.80	$ 53.90
3.1.117		4W-1	Four Wire Channel Unit I	$ 280.00	14.50%	$ 239.40	$ 41.80
3.1.118		4W-2	Four Wire Channel Unit 2	$ 434.00	14.52%	$ 371.00	$ 63.80
3.1.119		4W-3	Four Wire Channel Unit 3	$ 473.00	14.46%	$ 404.60	$ 70.40
3.1.120		DSO-DP	Digital Signal Zero Data Port Unit	$ 263.00	14.30%	$ 225.40	$ 39.60
3.1.121		OCU-DP	Office Channel Unit Data Port	$ 615.00	14.63%	$ 525.00	$ 91.30
3.1.122		DID (COT)	Coin Channel Unit (COT)	$ -		$ -	$ -
Corrects Description 3.1.122		DID (COT)	Direct Inward Dial Unit (COT)	$ 319.00	14.42%	$ 273.00	$ 47.30
3.1.123		DID (RT)	Direct Inward Dial Unit (RT)	$ 461.00	14.66%	$ 393.40	$ 68.20
3.1.124		APP (COT)	Active P-Phone Unit (COT)	$ 621.00	14.56%	$ 530.60	$ 91.30
3.1.125		APP (RT)	Active P-Phone Unit (RT)	$ 807.00	14.65%	$ 688.80	$ 118.80
3.1.126		AN12 (COT)	2-Party ANI Unit (COT)	$ 566.00	14.66%	$ 483.00	$ 83.60
3.1.127		AN12 (RT)	2-Party ANI Unit (RT)	$ 585.00	14.56%	$ 499.80	$ 86.90
3.1.128		PAS (COT)	POTS Alarm Service (COT)	$ 405.00	48.15%	$ 210.00	$ 36.30
3.1.129		PAS (RT)	POTS Alarm Service (RT)	$ 441.00	14.60%	$ 376.60	$ 64.90
3.1.130		DCA-L	DC Alarm Card (Loop)	$ 871.00	53.07%	$ 408.80	$ 70.40
3.1.131		DCA-P	DC Alarm Card (Polarity Reversal)	$ 580.00	14.55%	$ 495.60	$ 85.80
Additional Part (Item 3.1.131)		D-BRU-LT	Basic Rate ISDN "U" Interface-Line; TR-008 using the 3 DS0 method; Dual UnitUsed at the RT	$ 881.00	14.67%	$ 751.80	$ 129.80
3.1.132		D-BRU-LT2	Basic Rate U-Interface-Line Term(Dual Card) TR-008 operation using the 3 DS0 method 4:1 D-Channel TDM for TR-303 IDLC	$ 600.00	44.70%	$ 331.80	$ 57.20
3.1.133		D-BRU-NT	Basic Rate U-Interface-Ntwk Term	$ 909.00	14.68%	$ 775.60	$ 134.20
3.2 FLM 150							
Hardwired Equipment							

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -7

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	**Slot**	**Unit Type**	**Description**	**Manufacturer List Price($)**	**% of List**	**Purchase Price ($)**	**Installation Price ($)**
3.2.1		HA0IB-0037-A042	Standard Configuration: ADM shelf assembly, faceplate and heat/fiber tray (7'x23"x1" mtg- Central Office Relay Rack Assembly equipped with one FLM-150ADM, F&A panel, heat baffle & fiber tray. (five FLM-150ADMs max per rack))	$ 6,735.00	11.61%	$ 5,952.80	$ 1,024.10
Additional Part (Item 3.2.1)		Shelf	ADM Shelf	$ 1,614.00	2.68%	$ 1,570.80	$ 270.60
3.2.2		HA15B-0001-B106	ADM Shelf Assembly	$ 2,018.00	22.16%	$ 1,570.80	$ 270.60
3.2.3		HA15B-0001-B126	Heat Shield/Fiber Storage	$ 351.00	17.04%	$ 291.20	$ 50.60
3.2.4		H15B-5101-B147	OVTG Fiber Tray	$ 351.00	34.99%	$ 228.20	$ 39.60
3.2.5		FC9612FAC-I03	Faceplate Cover for Shelf	$ 786.00	34.10%	$ 518.00	$ 89.10
Common Plug-in Units							
3.2.6	PW1A	FC9612PW11-I07	Power Unit	$ 677.00	40.44%	$ 403.20	$ 70.40
3.2.7	HS1A	HS1A-AD2	High speed Switch/Overhead Access	$ 1,114.00	35.03%	$ 723.80	$ 125.40
3.2.8	MP1A	MP1A-V2	Microprocessor-All TRIB interfaces	$ 1,221.00	25.36%	$ 911.40	$ 157.30
3.2.9		MP1A-V3	Microprocessor-Supports all TRIB interfaces, OC-12 Optics, and TS1A-ENH	$ 1,565.00	41.76%	$ 911.40	$ 157.30
3.2.10		MP1A-ADL	Microprocessor-Supports all TRIB interfaces, OC-12 Optics, and TS1A-ENH, and software download	$ 2,178.00	61.37%	$ 841.40	$ 145.20
3.2.11	AW1A	AW1A-BSC	Alarm-Alarm Only	$ 974.00	71.40%	$ 278.60	$ 48.40
3.2.12		AW1A-ENH	Alarm and Order-wire-O/W/, Housekeeping	$ 2,371.00	33.99%	$ 1,565.20	$ 269.50
3.2.13	SV1A	SV1A-TB	Supervisory-TBOS; all TRIB interfaces	$ 2,201.00	0.84%	$ 2,182.60	$ 376.20
3.2.14		SV1A-TL4	Supervisory-TL1/X.25; all TRIB interfaces, supports OC-12 & TS1A-ENH, supports software download, TL1 command, FLEXR	$ 4,008.00	42.57%	$ 2,301.60	$ 396.00
3.2.15		SV1A-TDL	Supervirosy-TL1/X.25; all TRIB interfaces, supports OC-12 & TS1A-ENH, supports software download, TL1 command, FLEXR+C11	$ 4,320.00	50.77%	$ 2,126.60	$ 366.30
3.2.16	TCA	TCA	Timing Control			No Longer Available From Manufacturer	

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -8

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	**Slot**	**Unit Type**	**Description**	**Manufacturer List Price($)**	**% of List**	**Purchase Price ($)**	**Installation Price ($)**
3.2.17		TCA-ENH	Enhanced TCA unit, supports sync messaging application	$ 1,205.00	41.68%	$ 702.80	$ 121.00
Transport Plug-in Units							
3.2.18	LC1A	LC1A-D1	Low Speed-4xDS1	$ 742.00	47.17%	$ 392.00	$ 68.20
3.2.19		LC1A-D1E	Enhanced Low Speed-4xDS1			No Longer Available From Manufacturer	
3.2.20		LC1A-D1E2	Enhanced Low Speed-4xDS1	$ 1,500.00	35.97%	$ 960.40	$ 166.10
Additional Part (Item 3.2.20)		LC1A-TIO	Token Ring module; contains the physical connectors and analog circuitry required for token Ring connections	$ 7,945.00	86.11%	$ 1,103.20	$ 190.30
Additional Part (Item 3.2.20)		LC1A-10BT	Low-speed physical/electrical interface for one Ethernet 10Base-T LAN traffic port	$ 1,092.00	35.13%	$ 708.40	$ 122.10
3.2.21		Streaker Card	Test Unit-DS1	$ 175.00	0.00%	$ 175.00	$ 30.80
3.2.22		LC1A-F6 (FC Connector)	Low Speed-OVTG, available in FC, SC, ST, D4 Connectors	$ 3,225.00	33.97%	$ 2,129.40	$ 366.30
3.2.23	LS1A	LS1A-D1	Low Speed Switch-DS1/ OVTG	$ 514.00	38.99%	$ 313.60	$ 55.00
3.2.24	EC1A	EC1A-V2	EOC Processor (DCC)/OC-3 SwitchOC-3/OVTG/STS-1 Tributary	$ 5,708.00	70.00%	$ 1,712.20	$ 294.80
3.2.25		EC1A-DL2	EOC Processor (DCC)/OC-3 Switch-OC-3/OVTG/STS-1 Tributary, supports software download	$ 7,948.00	52.67%	$ 3,761.80	$ 646.80
3.2.26	MCXA	MC1A-MDM1	Middle Speed-DSI/ OVTG Muldem	$ 580.00	24.93%	$ 435.40	$ 75.90
3.2.27		MC1A-D3A2	Middle Speed-DS3, Provides STS-1, Unequipped code path switching and STS- I AIS injection	$ 1,384.00	15.43%	$ 1,170.40	$ 201.30
Additional Part (Item 3.2.27)		MC1A-TMD3	Middle-speed channel Transmux unit; provides the interface and input/output processing for DS-3 rate signals	$ 9,554.00	45.17%	$ 5,238.80	$ 900.90
3.2.28		MC1A-STS1	Middle Speed- STS-1			No Longer Available From Manufacturer	
Replaces 3.2.28		MC1A-ST1P	Middle Speed- STS-1 Channel Unit with the EC-1 interface	$ 1,771.00	18.89%	$ 1,436.40	$ 247.50
3.2.29		MC6A-31Mx	Middle Speed- OC-3 Intermediate Reach, 1310 nm, FC, SC, D4 Connectors			No Longer Available From Manufacturer	

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -9

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	**Slot**	**Unit Type**	**Description**	**Manufacturer List Price($)**	**% of List**	**Purchase Price ($)**	**Installation Price ($)**
Replaces 3.2.29		MC6A-31xM MC6A-31FM (FC Connector) MC6A-31CM (SC Connector) MC6A-31MT (ST Connector) MC6A-31DM (D4 Connector)	Middle-speed channel Unit - OC-3 (Intermediate Reach); Supports the OC-3 tributary interface as follows: Line interface 155.52 Mb/s optical signal; Optical power level = middle; Optical wave length = 1310 nm; Operation temperatur range: -40º to +65ºC; span length = intermediate reach (15 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; drops/inserts Section and Line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR applications only); Provides terminal and facility loopback functions; Monitors the bit error rate (BER); Provides provisionable Payload Defect Indication (PDI) signal STS-1/STS-3c paths used for UPSR applications when mounted in FLM600ADM and FLM600TRIB shelves; Supports Payload label Mismatch (PLM signal STS-1/STS-3c path code used for UPSR applications when mounted in FLM600ADM and FLM600TRIB shelves; Unit common to FLM150ADM, FLM600ADM, and FLM2400ADM	$ 2,908.00	25.69%	$ 2,160.90	$ 371.80
3.2.30		MC6A-31Lx	Middle Speed- OC-3 Long Reach, 1310 nm, FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer		No Longer Available From Manufacturer	
Replaces 3.2.30		MC6A-31xL MC6A-31FL (FC Connector) MC6A-31CL (SC Connector) MC6A-31TL (ST Connector) MC6A-31DL (D4 Connector)	Middle-speed channel unit - OC-3 (long reach; Supports the OC-3 trib interfaces as follows: Line interface: 155.52 Mb/s optical signal' Optical power level = High, Optical wavelength: 1310 nm, Operation temperature range: -40º through +65ºC, Span length: Long reach (40 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switchuing at STS-1 or STS-3c levels; Unit common to FLM-150ADM, FLM-600ADM, and FLM-2400ADM	$ 2,908.00	25.69%	$ 2,160.90	$ 371.80
3.2.31		MC6A-3LX2	Middle Speed- OC-3 Very Long Reach, 1550 nm, FC, SC, ST, D4 Connectors, Non-hardened	No Longer Available From Manufacturer		No Longer Available From Manufacturer	
3.2.32		MC6A-3SX1	Middle Speed- OC-3 Short Reach, 1310 nm, FC, SC, ST, D4 Connectors, Non-hardened			No Longer Available From Manufacturer	

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -10

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	**Slot**	**Unit Type**	**Description**	**Manufacturer List Price($)**	**% of List**	**Purchase Price ($)**	**Installation Price ($)**
Replaces 3.2.32		MC6A-31xS MC6A-31FS (FC Connector) MC6A-31CS (SC Connector) MC6A-31TS (ST Connector) MC6A-31DS (D4 Connector)	Optical 1 x OC-3 middle-speed interface (1310 nm) short reach; less than 8 km span length; protected 1+1; 0ºC to 50ºC; common with 2400 ADM HD Trib/ 600 ADM; FC, SC, ST, D4 connector(s); optical power level = low	$ 2,591.00	13.65%	$ 2,237.20	$ 385.00
Additional Part (Item 3.2.32)		MC6A-31xA MC6A-31FA (FC Connector) MC6A-31CA (SC Connector) MC6A-31TA ST Connector) MC6A-31DA (D4 Connector)	Multi-Mode Middle-speed channel unit OC-3 (short reach); supports the OC-3 Trib interface as follows: Line interface 1555.52 Mb/s optical signal, Optical power level: low, Optical wavelength 1270 to 1360 nm, Operation temperature range: -40º to +65ºC, Span length: short reach (5.1 km typical); Multiplexes and demultiplexes three STS-1 signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR and BLSR applications; Provides terminal and facility lookback functions; Monitors BER; Provides provisionable payload defect indication (PDI) signal STS-1/STS-3s paths when used for UPSR and BLSR applications; Supports SONET/SDH; Unit common to FLM150ADM, FLM-600ADM, and LM-2400ADM system that accomodate multi-mode fiber connections	$ 2,908.00	23.07%	$ 2,237.20	$ 385.00
3.2.33	TS1A	TS1A-BSC	Time-Slot Assignment- VT-1.5, STS-1	$ 4,950.00	39.50%	$ 2,994.60	$ 514.80
3.2.34		TS1A-ENH	Enhanced Time Slot Assignment -VT1.5, STS-1; provides VT1.5 path selection and groorning into an EC-1 or OC-3 tributary	$ 6,095.00	50.87%	$ 2,994.60	$ 514.80
3.2.35		TS1A-ENH2	Provides VTl.5 to STS-1 hairpinning cross-connect function. Supports TS1A-ENH features.	$ 9,692.00	48.42%	$ 4,999.40	$ 860.20
3.2.36	HC1A	HC1A-3MX1	High Speed- OC-3 Intermediate Reach, 1310 nm, FC, SC, ST, D4 Connectors			No Longer Available From Manufacturer	

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -11

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)	Installation Price ($)
3.2.37		HC1A-3LX1 HC1A-3LR1 (FC Connector) HC1A-3LC1 (SC Connector) HC1A-3LT1 (ST Connector) HC1A-3LD1 (D4 Connector)	High Speed- OC-3 Long Reach, 1310 nm, FC, SC, ST, D4 Connectors	$ 3,434.00	50.20%	$ 1,710.00	$ 293.90
3.2.38		HC1A-3LX2 HC1A-3LR2 (FC Connector) HC1A-3LC2 (SC Connector) HC1A-3LT2 (ST Connector) HC1A-3LD2 (D4 Connector)	High Speed- OC-3 Very Long Reach, 1550 nm, FC, SC, ST, D4 Connectors, Non-hardened	$ 12,769.00	9.15%	$ 11,600.40	$ 1,994.30
3.2.39		HC1A-3LX3	High Speed- OC-3 Very Long Reach, 1310 nm, FC, SC, ST, D4 Connectors, Non-hardened			No Longer Available From Manufacturer	
3.2.40		HC1A-3SX1 HC1A-3SR1 (FC Connector) HC1A-3SC1 (SC Connector) HC1A-3ST1 (ST Connector) HC1A-3SD1 (D4 Connector)	High Speed- OC-3 Short Reach, 1310 nm, FC, SC, ST, D4 Connectors, Non-hardened	$ 1,797.00	14.22%	$ 1,541.40	$ 265.10
3.2.41		HC1A-STS1	High Speed- 3 x STS-1	$ 3,257.00	37.97%	$ 2,020.20	$ 347.60
3.2.42		HC1A-6LX1 HC1A-6LR1 (FC Connector) HC1A-6LC1 (SC Connector) HC1A-6LT1 (ST Connector) HC1A-6LD1 (D4 Connector)	High Speed- OC-12 Long Reach, 1310 nm, FC, SC, ST, D4 Connectors, Hardened	$ 13,077.00	34.59%	$ 8,554.00	$ 1,470.70

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -12

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE					
Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)		Installation Price ($)
Additional Part (Item 3.2.42)		STS Cable Set (Two cables per set)	Ribbon cable for 12 STS-1 pass-through on OC-12 Optic (Connects to front of unit); One set per unit	$ 82.00	53.90%	$ 37.80	$	6.60
3.2.43		MC1A-APU	FASTLANE Processor	$ 4,031.00	46.65%	$ 2,150.40	$	370.70
3.2.44		MC1A-ATM	FASTLANE STS-1/ ATM Converter	$ 4,129.00	64.09%	$ 1,482.60	$	255.20
3.2.45		MC1A-RPU	FASTLANE Router Processor	$ 5,074.00	55.11%	$ 2,277.80	$	391.60
3.2.46		LS1A-D3U	FASTLANE DS3 UNI card	$ 7,578.00	53.06%	$ 3,557.40	$	611.60
3.2.47		LS1A-ETH	FASTLANE EPMB card	$ 1,566.00	53.78%	$ 723.80	$	125.40
3.2.48		LS1A-RME	FASTLANE Ethernet Bridge/ Router	$ 5,892.00	85.41%	$ 859.60	$	148.50
3.2.49		LS1A-RMT	FASTLANE Token Ring Bridge/ Router	$ 1,600.00	67.63%	$ 518.00	$	89.10
3.2.50		LAN Cable Rel. 1	Ethernet LMP Interface kit (HA15B-001-D115	$ 62.00	20.97%	$ 49.00	$	8.80
3.2.51		DS3 UNI Cable	DS3 UNI Interface kit (HA15B-0001-D114	$ 185.00	19.78%	$ 148.40	$	26.40
3.3 FLM 6								
Hardwired Equipment								
3.3.1		Shelf	Modular Shelf with ears for rack mounting and Ethernet connector	$ 988.00	18.38%	$ 806.40	$	139.70
3.3.2		Adapter	23" Rack Adapter	$ 152.00	7.89%	$ 140.00	$	24.20
3.3.3		Adapter	19" Rack Adapter	$ 152.00	7.89%	$ 140.00	$	24.20
3.3.4	HOUS	Wall Mount Cabinet	Wall Mountable cabinet for shelf enclosure	$ 2,482.00	50.48%	$ 1,229.20	$	212.30
3.3.5	HARDW	Wall Mount Kit	Installation materials for wall mount enclosure	$ 152.00	7.89%	$ 140.00	$	24.20
3.3.6	PWCNV	Converter	AC/DC Pwr Converter	$ 611.00	42.49%	$ 351.40	$	60.50
3.3.7	BTMN	Battery Monitor	Battery Monitor and low voltage disconnect	$ 600.00	44.00%	$ 336.00	$	58.30
3.3.8	BAT	Batteries (Battery Kit)	Set of 4 batteries for wall mount housing battery backup	$ 295.00	49.22%	$ 149.80	$	26.40
3.3.9	BAT	Batteries (Battery Backup)	Individual Spare Battery, mountable in wall mount enclosure	$ 323.00	83.53%	$ 53.20	$	9.90
3.3.10	HARDW	Fuse Kit	Spare fuses for converter and battery monitor units	$ 12.00	-16.67%	$ 14.00	$	3.30
3.3.11	HARDW	Swing Kit (Plate)	Hinged plate for zero clearance for wall mount cabinet	$ 769.00	67.59%	$ 249.20	$	42.90
3.3.12	MPU/ ALM	MPU & ALM2	Microprocessor- local user interface and alarms	$ 812.00	35.52%	$ 523.60	$	90.20
3.3.13		MPU & ALM6	Supports software downloads. MPU & ALM2 features supported.	$ 1,009.00	11.48%	$ 893.20	$	154.00
3.3.14	LC1A	LC1A-D1	Low Speed - 4xDS1	$ 742.00	47.17%	$ 392.00	$	68.20

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -13

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	**Slot**	**Unit Type**	**Description**	**Manufacturer List Price($)**	**% of List**	**Purchase Price ($)**	**Installation Price ($)**
3.3.15		LC1A-D1E2	Enhanced Low Speed - 4xDS1	$ 1,500.00	35.97%	$ 960.40	$ 166.10
3.3.16		Streaker Card	Test Unit- DS1	$ 175.00	0.00%	$ 175.00	$ 30.80
3.3.17	OVTG	OVTG OVTG (FC Connector) OVTG (SC Connector) OVTG (ST Connector) OVTG (D4 Connector)	6 Mb/s optical interface with VT1.5 format. Available with FC, ST, SC, D4 connectors.	$ 2,815.00	23.96%	$ 2,140.60	$ 368.50
3.4 FLM 600							
Common Plug-in Units							
3.4.1		HA15B-0001-B070	ADM Shelf Assembly (Includes misc hardware for mounting in Fujitsu manufactured standard relay rack.)	$ 7,943.00	39.28%	$ 4,823.00	$ 829.40
Additional Part (Item 3.4.1)		Shelf	ADM Shelf Assembly	$ 7,189.00	32.91%	$ 4,823.00	$ 829.40
3.4.2		HA15B-0001-B126	Heat Shield/ Fiber Storage	$ 351.00	17.04%	$ 291.20	$ 50.60
3.4.3		FC9616FAC2	Faceplate Cover for Shelf	$ 829.00	67.74%	$ 267.40	$ 46.20
3.4.4	PW6A	PW6A	Power Supply	$ 1,610.00	68.32%	$ 510.00	$ 87.66
3.4.5		HS6A-AD2	High Speed Switch/Overhead Access, required for Terminal nodes in Regen applications	$ 2,735.00	29.87%	$ 1,918.00	$ 330.00
3.4.6		HS6A-REG	High Speed Switch/Overhead Access for Regen nodes	$ 1,957.00	9.65%	$ 1,768.20	$ 304.70
3.4.7	MP6A	MP6A-STD	Microprocessor- Term, Hub, No TSA			No Longer Available From Manufacturer	
3.4.8		MP6A-ADM	Microprocessor- Term, Hub, Ring, ADM	$ 7,555.00	43.68%	$ 4,254.60	$ 731.50
3.4.9		MP6A-24G	Microprocessor- 2.4 Gb/s Upgrade	$ 5,768.00	74.37%	$ 1,478.40	$ 255.20
3.4.10		MP6A-ADL	Microprocessor- Software Downloadable for Term, Hub, ADM, Ring; Provides Time Slot Assignment	$ 7,049.00	35.63%	$ 4,537.40	$ 779.90
3.4.11		MP6A-24DL	Supports software download and MP6A-24G features	$ 5,768.00	74.37%	$ 1,478.40	$ 255.20
3.4.12		MP6A-REG	Microprocessor- supports OC-12 regenerator	$ 3,818.00	36.56%	$ 2,422.00	$ 416.90
3.4.13	AW6A	AW6A-BSC	Alarm and Orderwire- Alarm Only	$ 598.00	13.04%	$ 520.00	$ 89.37
3.4.14		AW6A-ENH	Alarm and Orderwire- O/W, Housekeeping	$ 2,494.00	46.39%	$ 1,337.00	$ 229.90
3.4.15		SV6A-TL2	Supervisory- TL1/ X.25, All TRIB interfaces, user TL1 command, FLEXR	$ 3,894.00	47.72%	$ 2,035.60	$ 350.90

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -14

SPO Price List No. 00-18
12/1/99 to 11/30/01

				GROUP I: PURCHASE				
Item No.	**Slot**	**Unit Type**	**Description**	**Manufacturer List Price($)**		**% of List**	**Purchase Price ($)**		**Installation Price ($)**
3.4.16		SV6A-24G	Supervisory- 2.4 Gb/s Upgrade	$ 5,846.00		91.57%	$ 492.80	$ 85.80
3.4.17		SV6A-TDL	Supervisory OS Software Downloadable interface for TL1/ X.25/ LCN; user menu Mode, user TL1 commands, FLEXR, Supports all tributaries	$ -			$ -	$ -
Corrects Unit Type 3.4.17		SV6A-TDL1	Supervisory OS Software Downloadable interface for TL1/ X.25/ LCN; user menu Mode, user TL1 commands, FLEXR, Supports all tributaries	$ 5,564.00		39.46%	$ 3,368.40	$ 579.70
3.4.18		SV6A-REG	Supervisory OS interface, Regenerator	$ 2,680.00		9.63%	$ 2,422.00	$ 416.90
3.4.19	TCA	TCA	Timing Control				No Longer Available From Manufacturer	
3.4.20		TCA-ENH	Supports TCA features and synchronization status messaging	$ 1,205.00		51.87%	$ 580.00	$ 99.69
Transport Plug-in Units								
3.4.21		MC6A-D3A2	Middle Speed- 3 x DS3 interface/ protected 1:1; (Provides unequipped code switching and STS-1 AIS injection)	$ 2,202.00		37.12%	$ 1,384.60	$ 238.70
3.4.22		MC6A-ST1E	Middle Speed-3 x STS-1				No Longer Available From Manufacturer	
3.4.23		MC6A-ST1P	Middle Speed Channel Unit ST1P. Provides POH, UNEQ, PDI, AIS generation and PLM	$ 2,243.00		44.82%	$ 1,237.60	$ 213.40
3.4.24		MC6A-31Mx	Middle Speed- OC-3 Intermediate Reach, 1310 nm, Hardened, FC, SC, ST, D4 Connectors				No Longer Available From Manufacturer	
3.4.25		MC6A-31xM MC6A-31FM (FC Connector) MC6A-31CM (SC Connector) MC6A-31MT (ST Connector) MC6A-31DM (D4 Connector)	Supports PLM, PDl and MC6A-31Mx features	$ 2,908.00		25.69%	$ 2,160.90	$ 371.80
3.4.26		MC6A-31Lx	Middle Speed- OC-3 Long Reach, 1310 nm, Hardened, FC, SC, ST, D4 Connectors				No Longer Available From Manufacturer	

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -15

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)	Installation Price ($)
3.4.27		MC6A-31xL MC6A-31FL (FC Connector) MC6A-31CL (SC Connector) MC6A-31TL (ST Connector) MC6A-31DL (D4 Connector)	Supports PLM, PDI and MC6A-31Lx features (Middle-speed channel unit - OC-3 (long reach; Supports the OC-3 trib interfaces as follows: Line interface: 155.52 Mb/s optical signal' Optical power level = High, Optical wavelength: 1310 nm, Operation temperature range: -40º through +65ºC, Span length: Long reach (40 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switchuing at STS-1 or STS-3c levels; Unit common to FLM-150ADM, FLM-600ADM, and FLM-2400ADM)	$ 2,908.00	25.69%	$ 2,160.90	$ 371.80
3.4.28		MC6A-3LX3	Middle Speed- OC-3 Long Reach, 1310 nm, FC, SC, ST, D4 Connectors			No Longer Available From Manufacturer	
3.4.29		MC6A-31Sx	Middle Speed- OC-3 Short Reach, 1310 nm, FC, SC, ST, D4 Connectors			No Longer Available From Manufacturer	
3.4.30 Replaces 3.4.29		MC6A-31xS MC6A-31FS (FC Connector) MC6A-31CS (SC Connector) MC6A-31TS (ST Connector) MC6A-31DS (D4 Connector)	Supports PLM, PDI, and MC6A-31Lx features (Optical 1 x OC-3 middle-speed interface (1310 nm) short reach; less than 8 km span length; protected 1+1; 0ºC to 50ºC; common with 2400 ADM HD Trib/ 600 ADM; FC, SC, ST, D4 connector(s); optical power level = low)	$ 2,591.00	13.65%	$ 2,237.20	$ 385.00

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -16

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	**Slot**	**Unit Type**	**Description**	**Manufacturer List Price($)**	**% of List**	**Purchase Price ($)**	**Installation Price ($)**
Additional Part (Item 3.4.30)		MC6A-31xA MC6A-31FA (FC Connector) MC6A-31CA (SC Connector) MC6A-31TA ST Connector) MC6A-31DA (D4 Connector)	Multi-Mode Middle-speed channel unit OC-3 (short reach); supports the OC-3 Trib interface as follows: Line interface 1555.52 Mb/s optical signal, Optical power level: low, Optical wavelength 1270 to 1360 nm, Operation temperature range: -40º to +65ºC, Span length: short reach (5.1 km typical); Multiplexes and demultiplexes three STS-1 signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR and BLSR applications; Provides terminal and facility lookback functions; Monitors BER; Provides provisionable payload defect indication (PDI) signal STS-1/STS-3s paths when used for UPSR and BLSR applications; Supports SONET/SDH; Unit common to FLM150ADM, FLM-600ADM, and LM-2400ADM system that accomodate multi-mode fiber connections	$ 2,908.00	30.48%	$ 2,021.60	$ 347.60
3.4.31	MS6A	MS6A-OPT	Middle Speed Switch- SONET Tributary			No Longer Available From Manufacturer	
3.4.32		MS6A-OPT2	Supports synchronization status messaging and MS6A-OPT features	$ 1,323.00	28.36%	$ 947.80	$ 163.90
3.4.33	EC6A	EC6A	EOC Processor- SONET Tributary	$ 2,315.00	33.48%	$ 1,540.00	$ 264.69
3.4.34		EC6A-24G	EOC Processor- used for 2.4G connection	$ 2,315.00	14.31%	$ 1,983.80	$ 341.00
3.4.35		EC6A-DL1	DCC Processor for OC-3/ STS-1 TRIB, software downloadable, supports SDCC on all SONET TRIBs	$ 4,046.00	11.76%	$ 3,570.00	$ 613.80
3.4.36	HC6A	HC6A-6LX1 HC6A-6LR1 (FC Connector) HC6A-6LC1 (SC Connector) HC6A-6LT1 (ST Connector) HC6A-6LD1 (D4 Connector)	High Speed- OC-12 Long Reach, 1310 nm, FC, SC, ST, D4 Connectors, Non-hardened	$ 9,022.00	31.39%	$ 6,190.00	$ 1,063.90

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -17

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)	Installation Price ($)
3.4.37		HC6A-6LX2 HC6A-6LR2 (FC Connector) HC6A-6LC2 (SC Connector) HC6A-6LT2 (ST Connector) HC6A-6LD2 (D4 Connector)	High Speed- OC-12 Long Reach, 1550 nm, FC, SC, ST, D4 Connectors, Non-hardened	$ 16,738.00	22.89%	$ 12,906.60	$ 2,218.70
3.4.38		HC6A-6LX3 HC6A-6LR3 (FC Connector) HC6A-6LC3 (SC Connector) HC6A-6LT3 (ST Connector) HC6A-6LD3 (D4 Connector)	High Speed- OC-12 Long Reach, 1310 nm, FC, SC, ST, D4 Connectors, Extended Temperature	$ 13,491.00	26.79%	$ 9,877.00	$ 1,698.40
3.4.39		HC6A-6EL1	High Speed- 2.4Gb/s Upgrade; Ring, Term LNR ADM (cannot drop OC-12 TRIBs from shelf)	$ 5,538.00	2.70%	$ 5,388.60	$ 926.20
3.4.40		HC6A-6EL2	High Speed- 2.4 Gb/s Upgrade; Ring, Term LNR ADM (can drop OC-12 TRIBs from shelf)	$ 7,308.00	66.28%	$ 2,464.00	$ 424.60
3.4.41		HC6A-RLX1 HC6A-RLR1 (FC Connector) HC6A-RLC1 (SC Connector) HC6A-RLT1 (ST Connector) HC6A-RLD1 (D4 Connector)	High Speed- OC-12 Long Reach, 1310 nm, Regenerator application only, FC, SC, ST, D4 Connectors	$ 9,022.00	18.21%	$ 7,379.40	$ 1,269.40

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -18

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	**Slot**	**Unit Type**	**Description**	**Manufacturer List Price($)**	**% of List**	**Purchase Price ($)**	**Installation Price ($)**
3.4.42		HC6A-RLX3 HC6A-RLR3 (FC Connector) HC6A-RLC3 (SC Connector) HC6A-RLT3 (ST Connector) HC6A-RLD3 (D4 Connector)	High Speed- OC-12 Long Reach, 1310 nm, Regenerator Application only, Hardened, FC, SC, ST, D4 Connectors	$ 13,491.00	44.14%	$ 7,536.20	$ 1,295.80
3.5 FLM 2400							
Hardwired Equipment							
3.5.1		HSE Shelf	High Speed Shelf with integral fiber storage tray	$ 7,757.00	34.25%	$ 5,100.20	$ 876.70
3.5.2		HD TRIB	Shelf High Density Tributary Shelf (Two max per FLM-2400ADM)	$ 5,878.00	44.03%	$ 3,290.00	$ 566.50
Additional Part (Item 3.5.2)		Shelf	ADM Shelf Assembly (Four max per FLM-2400ADM)	$ 7,189.00	32.91%	$ 4,823.00	$ 829.40
3.5.3		Fan Shelf	Fan Shelf (HS Shelf)	$ 608.00	31.61%	$ 415.80	$ 71.50
3.5.4		Fan Unit	Fan Unit (HS Shelf)	$ 560.00	32.75%	$ 376.60	$ 64.90
3.5.5		Air Filter	Air Filter	$ 209.00	35.02%	$ 135.80	$ 24.20
3.5.6		Panel	Fiber Storage Tray (HS Shelf)	$ 351.00	17.04%	$ 291.20	$ 50.60
3.5.7		Panel	Heat Shield for Regen application	$ 186.00	17.20%	$ 154.00	$ 27.50
3.5.8		Cable (CAB1)	Signal cables between HS and TRIB shelves (Used with HC6A-6EL1s in 600 tributary shelf applications and for OC-3 HD tributary shelf applications; Only CAB4 cables may be used with HC6A-6EL2s and other HD tributary applictions.)	$ 192.00	24.90%	$ 144.20	$ 25.30
3.5.9		Cable (CAB2)	Signal cables between HS and TRIB shelves (CAB2 cables are used only when an FLM-600ADM ring migrates to FLM-2400ADM ring.)	$ 548.00	23.87%	$ 417.20	$ 72.60
3.5.10		Cable (CAB3)	Signal cables between HS shelf and HCA6-6EL2 units in FLM 600 ADM TRIB shelf	$ -		$ -	$ -
Corrects Description 3.5.10		Cable (CAB3)	Interconnects 600 Tributary interface cards: HC6A-6EL2 to HC6A-6EL2. Used front-of-card to front-of-card; UPSR applications.	$ 192.00	30.73%	$ 133.00	$ 23.10

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -19

SPO Price List No. 00-18
12/1/99 to 11/30/01

	GROUP I: PURCHASE						
Item No.	**Slot**	**Unit Type**	**Description**	**Manufacturer List Price($)**	**% of List**	**Purchase Price ($)**	**Installation Price ($)**
Additional Part (Item 3.5.10)		Cable (CAB4)	Signal cables between HS shelf and HCA6-6EL2 units in FLM 600 ADM TRIB shelf; used to inter-connect HS shelf with HD Tributary shelves	$ 192.00	30.73%	$ 133.00	$ 23.10
Additional Part (Item 3.5.10)		Tributary Interface Cable	Intershelf cable; 5'	$ 91.00	27.69%	$ 65.80	$ 12.10
Additional Part (Item 3.5.10)		Tributary Interface Cable	Intershelf cable; 7"	$ 158.00	58.35%	$ 65.80	$ 12.10
3.5.11		MC6A3BRD Cable	Bridge cable between bridge unit and HC2T-MDL	$ 192.00	30.73%	$ 133.00	$ 23.10
HS Shelf common Plug-in Units							
3.5.12	PW2H	PW2H-HS	Power Supply for HS common units; HS optical units are self-powered	$ 646.00	31.52%	$ 442.40	$ 77.00
3.5.13	HS2H	HS2H-LTE1	High Speed Switch - I + I Terminal	$ 1,060.00	27.62%	$ 767.20	$ 132.00
3.5.14		HS2H-ADM1	High Speed Switch - I + I ADM	$ 1,754.00	21.86%	$ 1,370.60	$ 236.50
3.5.15		HS2H-RNG2	High Speed Switch - I + I Ring (TSA x 48 STS-1)	$ 1,754.00	31.20%	$ 1,206.80	$ 207.90
3.5.16		HS2H-REG	High Speed Switch- All regenerator applications	$ 2,211.00	63.72%	$ 802.20	$ 138.60
3.5.17		HS2H-A1DL	High Speed Switch control for I + I linear ADM, DCC, APS, SW & SWDL	$ 1,754.00	9.01%	$ 1,596.00	$ 275.00
Additional Part (Item 3.5.17)		HS2H-A2DL	High Speed Switch control for I + I linear ADM, SDCC & OW, APS, SW & SWDL; Supports Synchronization Status Messaging for release 10S/10BS and later	$ 2,705.00	30.34%	$ 1,884.40	$ 324.50
Additional Part (Item 3.5.17)		HS2H-U1	High Speed Switch control for TERM, w/o TSA, TERM w/TSA, UPSR, and REGEN configurations; SDCC; OC-48 Protection switching; Provides section and line overhead byte (OHB) processiung; Accesses the SONET APS byte for high-speed switching; Accesses the SDCC and OW bytes; Supports Synchronization Status Messaging for release 10S/10BS and later	$ 2,146.00	38.09%	$ 1,328.60	$ 228.80
3.5.18		HS2H-B1	High Speed Controller- BLSR			No Longer Available From Manufacturer	
Replaces 3.5.18		HS2H-B1DL	High Speed Controller- BLSR; swdl; Indicates ring switch status; Accesses the SONET APS bytes for high-speed switching; Accesses the SDCC and OW bytes	$ 2,760.00	56.28%	$ 1,206.80	$ 207.90

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -20

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)	Installation Price ($)
3.5.19		MP2H-T12	Microprocessor- I + 1, TL1: AII applications with TSA x 48 STS-1 and single TID	$ 1,745.00	37.74%	$ 1,086.40	$ 187.00
3.5.20		MP2H-SLV	Slave Microprocessor- I + I and ADM applications; use in one HS shelf of ADM configuration; other HS shelf has standard MP2H card; use for TSA x 48 STS-1 and single TID	$ 1,832.00	26.10%	$ 1,353.80	$ 233.20
3.5.21		MP2H-DL	Microprocessor for all TL1/X.25 with SWDL	$ 3,731.00	19.36%	$ 3,008.60	$ 518.10
Additional Part (Item 3.5.21)		MP2H-DLB	supports SWDL when OSS interface is TL1/OSI; Overall HS shelf control; Collects alarm, status, and provisioning; Provides nonvolitile memory backup of provisioning; collects alarm/status/performance monitoring information from tributary shelf microprocessor; Supports tributary SDCC; Supports HM2H-A1 unit with TSA; Supports HM2H-A2 unit without TSA; Supports HM2H-A3 unit for regenerator applications; Supports HM2H-B1 unit for BLSR; supports HM2H-C1 unit; Supports a single TID with FLM600ADM trib shelves; Use with SV2H-DL/ -DLB, MP2T-DL, and MP6A-24DL; Supports synchronization Status Messaging for release 10S/10BS and later	$ 3,731.00	19.36%	$ 3,008.60	$ 518.10
3.5.22		MP2H-DLS	Microprocessor for all TL1/X.25(1+1) Term, Reg. ADM, and Ring with SWDL. In linear configuration use in SLAVE shelf.	$ 3,731.00	19.36%	$ 3,008.60	$ 518.10
3.5.23		MP2H-B1	Microprocessor for BLSR	$ 1,745.00	29.24%	$ 1,234.80	$ 212.30
3.5.24	AW2H	AW2H-A1	Alarm and Orderwire- Alarm Only	$ 1,175.00	31.73%	$ 802.20	$ 138.60
3.5.25		AW2H-A2	Alarm and Orderwire- Alarm Orderwire	$ 1,409.00	22.40%	$ 1,093.40	$ 188.10
3.5.26		SV2H-T12	Supervisory- 1 + 1, TL1/X.25; All applications with TSA x 48 STS-1 and single TID	$ 3,026.00	31.57%	$ 2,070.60	$ 356.40
3.5.27		SV2H-DL	Supervisory OS interface for TL1/X.25 & LCN 1+1 applications. Supports TSA x 48 and single TID W/ SWDL	$ 5,507.00	46.79%	$ 2,930.20	$ 503.80

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -21

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	**Slot**	**Unit Type**	**Description**	**Manufacturer List Price($)**	**% of List**	**Purchase Price ($)**	**Installation Price ($)**
Additional Part (Item 3.5.27)		SV2H-DLB	supports terminal, linear, REGEN, UPSR, and BLSR; SWDL; Used with MP2H-DL/-DLB with TSA, HM2H-A2, HM2H-A3, HM2H-B1, and HM2H-C1 units; Provides user with access for TL1 commands and FLEXR; Provides nonvolitile memory backup of administration data stored on MP2H unit; Supports Synchronization Status Messaging for release 10S/10BS and later	$ 5,507.00	46.79%	$ 2,930.20	$ 503.80
3.5.28		SV2H-B1	Supervisory OS interface for BLSR	$ 3,026.00	22.23%	$ 2,353.40	$ 404.80
Tributary Shelf Common Plug-in Units							
3.5.29	PW1A	PW1A	Power Supply			Duplicate Item, Please See Item 3.5.71	
3.5.30		PW1A-TRIB	Power Unit, supports HD TRIB optics as well as HD TRIBs with DS3 and STS1 interfaces	$ 343.00	0.00%	$ 343.00	$ 59.40
3.5.31	HS2T	HS2T-D3	Group Processor- DS3	$ 989.80	0.00%	$ 989.80	$ 170.50
3.5.32		HS2T-S1	Group Processor- STS-1	$ 900.20	0.00%	$ 900.20	$ 155.10
3.5.33		HS2T-C3	Group Processor- OC-3	$ 2,445.80	0.00%	$ 2,445.80	$ 421.30
3.5.34		HS2T-SDL	Group Processor, Required for STS-1 interfaces W/ SDCC & SWDL			Duplicate Item, Please See Item 3.5.76	
3.5.35		HS2T-C3DL	Group Processor, Required for OC-3/c, OC-12/c interfaces W/ SDCC & SWDL. Use W/A 1/2/4	$ 4,127.20	0.00%	$ 4,127.20	$ 709.50
3.5.36		MP2T-T12	TRIB Shelf Microprocessor- all applications with TSA x 48 STS-1 and single TID			Duplicate Item, Please See Item 3.5.78	
3.5.37		MP2T-DL	TRIB Shelf Processor (MPU) SWDL	$ 1,290.80	0.00%	$ 1,290.80	$ 222.20
3.5.38	HT2H	HT2H-LR1X HT2H-LR1B (FC Connector) HT2H-LR1S (ST Connector)	High Speed Transmitter- OC-48, 1310 nm, Basic, FC, ST Connector	$ 11,149.00	38.17%	$ 6,893.60	$ 1,185.80
3.5.39		HT2H-LR1H (FC Connector)	High Speed Transmitter- OC-48, 1310 nm, high, I0E-13BER	$ 13,780.00	29.73%	$ 9,683.80	$ 1,665.40
3.5.40		HT2H-LR2X HT2H-LR2B (FC Connector) HT2H-LR2S (ST Connector)	High Speed Transmitter- OC-48, 1550 nm, Basic	$ 17,692.00	35.90%	$ 11,340.00	$ 1,949.20
3.5.41		HT2H-LR2H (FC Connector)	High Speed Transmitter- OC-48, 1550 nm, High	$ 23,148.00	29.75%	$ 16,261.00	$ 2,795.10

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -22

SPO Price List No. 00-18
12/1/99 to 11/30/01

GROUP I: PURCHASE							
Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)	Installation Price ($)
3.5.42		HT2H-NB21	High Speed Transmitter- OC-48, 1550 nm, narrowband			No Longer Available From Manufacturer	
3.5.43		HT2H-L1BX HT2H-L1BC (SC Connector) HT2H-L1BD (D4 Connector)	High Speed Transmitter- OC-48, 1310 nm, SD or D4 Connector	$ 11,149.00	33.92%	$ 7,366.80	$ 1,267.20
3.5.44		HT2H-L2BC HT2H-L2BC (SC Connector) HT2H-L2BD D4 Connector)	High Speed Transmitter- OC-48, 1550 nm, SC or D4 Connector	$ 17,692.00	31.51%	$ 12,117.00	$ 2,083.40
3.5.45		HT2H-NBF1	High Speed Transmitter- OC-48, 1558 nm for WDM, EDFA			No Longer Available From Manufacturer	
3.5.46		HT2H-NBF2	High Speed Transmitter- OC-48, 1536 nm for WDM, EDFA			No Longer Available From Manufacturer	
3.5.47	HR2H	HR2H-LR1X HR2H-LR1B (FC Connector) HR2H-LR1S (ST Connector)	High Speed Receiver-OC-48, 1310 nm Basic, FC and ST Connectors	$ 16,180.00	38.20%	$ 9,998.80	$ 1,719.30
3.5.48		HR2H-LR1H	High Speed Receiver- OC-48, 1310 nm, High	$ 19,235.00	29.76%	$ 13,510.00	$ 2,322.10
3.5.49		HR2H-LR2X HR2H-LR2B (FC Connector) HR2H-LR2S (ST Connector)	High Speed Receiver- OC48, 1550 nm, Basic, FC and ST Connectors	$ 23,092.00	27.41%	$ 16,763.60	$ 2,882.00
3.5.50		HR2H-LR2H (FC Connector)	High Speed Receiver- OC-48,1550 nm, High	$ 34,626.00	29.76%	$ 24,320.80	$ 4,181.10
3.5.51		HR2H-L1BX HR2H-L1BD (D4 Connector) HR2H-L1BC SC Connector)	High Speed Receiver- OC-48, 1310 nm, SC or D4 Connector	$ 16,180.00	33.94%	$ 10,689.00	$ 1,838.10
3.5.52		HR2H-L2BX HR2H-L2BC (SC Connector) HR2H-L2BD (D4 Connector)	High Speed Receiver- OC-48, 1550 nm, SC or D4 Connector	$ 23,092.00	22.40%	$ 17,920.00	$ 3,080.00

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -23

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	**Slot**	**Unit Type**	**Description**	**Manufacturer List Price($)**	**% of List**	**Purchase Price ($)**	**Installation Price ($)**
3.5.53	HM2H	HM2H-A1	Muldem- TSA, all applications except Regen	$ 9,077.00	31.52%	$ 6,216.00	$ 1,069.20
3.5.54		HM2H-A2	Muldem-1+1, l:N Working, no TSA	$ 6,389.00	31.50%	$ 4,376.40	$ 752.40
3.5.55		HM2H-A3	Muldem- Section Terminating Regen, no TSA	$ 6,389.00	89.61%	$ 663.60	$ 114.40
3.5.56		HM2H-B1	Muldem, timing control for BLSR	$ 10,474.00	40.65%	$ 6,216.00	$ 1,069.20
Additional Part (Item 3.5.56)		HM2H-C1	Supports TSA terminal, linear, UPSR, and BLSR configurations; Used in SWDL networks; Multiplexes/demultiplexes compsite signals between tributary shelves/optical transmitter/receiver; Provides local clock for the FLM2400ADM system from external DS1 BITS, optical line timing, or internal Stratum 3 clock; Provides both automatic and manual switching function for the external timing reference; Provides holdover function; Provides reference clock switching funtion by synchronization message; Supports Synchronization Status Messaging for release 10S/10BS UPSR, and BLSR applications	$ 15,657.00	56.33%	$ 6,837.60	$ 1,175.90
Tributary Shelf Transport Plug-in Units (High Density Trib)							
3.5.57	HC2T	HC2T-MDL	High Speed, Terminal and Ring, DS3, STS-1, & OC-3	$ 1,591.00	50.19%	$ 792.40	$ 136.40
3.5.58		HC2T-C12L	High Speed and Ring, OC-12	$ 3,195.00	54.87%	$ 1,442.00	$ 248.60
3.5.59	MC6A	MC6A-D3E	Middle Speed - 3 x DS3			No Longer Available From Manufacturer	
3.5.60		MC6A-D3E2	Electrical 3 x DS3 interface (Enhanced), protected 1:4 in quad. Switch on unequipped code.	$ 2,359.00	60.24%	$ 938.00	$ 161.70
3.5.61		MC6A-ST1E	Middle Speed - 3 x STS-1			No Longer Available From Manufacturer	
Replaces 3.5.61		MC6A-ST1P	Middle-speed channel unit ST1P; LOS, LOF monitoring; provides EC-1 electrical Trib interfaces for three STS-1 signals; Path overhead (POH) monitoring in ring configurations; control line and path switching based on BER detection; Provides provisionable STS-1 unequipped code (UNEQ) code path protection switching; Provides provisionable payload defect indication (PDI) when used for UPSR and BLSR applications; AIS generation and line and path AIS detection circuitry; Line build out (LBO) selections; Terminal and fecility loopback functions; Supports payload label mismatch (PLM) code when used for UPSR and BLSR applications	$ 2,243.00	44.82%	$ 1,237.60	$ 213.40
3.5.62		MC6A-3BRD	Middle Speed Bridge for OC-3	$ 1,774.00	45.55%	$ 966.00	$ 166.10

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -24

SPO Price List No. 00-18
12/1/99 to 11/30/01

GROUP I: PURCHASE							
Item No.	**Slot**	**Unit Type**	**Description**	**Manufacturer List Price($)**	**% of List**	**Purchase Price ($)**	**Installation Price ($)**
3.5.63		MC6A-31Mx	Middle Speed- OC-3 Intermediate Reach 1310 nm, Hardened, FC, SC, ST, D4 Connectors			No Longer Available From Manufacturer	
Replaces 3.5.63		MC6A-31xx MC6A-31FM (FC Connector) MC6A-31CM (SC Connector) MC6A-31MT (ST Connector) MC6A-31DM (D4 Connector)	Middle-speed channel Unit - OC-3 (Intermediate Reach); Supports the OC-3 tributary interface as follows: Line interface 155.52 Mb/s optical signal; Optical power level = middle; Optical wave length = 1310 nm; Operation temperatur range: -40º to +65ºC; span length = intermediate reach (15 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; drops/inserts Section and Line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR applications only); Provides terminal and facility loopback functions; Monitors the bit error rate (BER); Provides provisionable Payload Defect Indication (PDI) signal STS-1/STS-3c paths used for UPSR applications when mounted in FLM600ADM and FLM600TRIB shelves; Supports Payload label Mismatch (PLM signal STS-1/STS-3c path code used for UPSR applications when mounted in FLM600ADM and FLM600TRIB shelves; Unit common to FLM150ADM, FLM600ADM, and FLM2400ADM	$ 2,908.00	25.69%	$ 2,160.90	$ 371.80
3.5.64		MC6A-31LX	Middle Speed- OC-3 Long Reach, 1310 nm, Non-Hardened, FC, SC, ST, D4 Connectors			No Longer Available From Manufacturer	
Replaces 3.5.64		MC6A-31xL MC6A-31FL (FC Connector) MC6A-31CL (SC Connector) MC6A-31TL (ST Connector) MC6A-31DL (D4 Connector)	Middle-speed channel unit - OC-3 (long reach; Supports the OC-3 trib interfaces as follows: Line interface: 155.52 Mb/s optical signal' Optical power level = High, Optical wavelength: 1310 nm, Operation temperature range: -40º through +65ºC, Span length: Long reach (40 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switchuing at STS-1 or STS-3c levels; Unit common to FLM-150ADM, FLM-600ADM, and FLM-2400ADM	$ 2,908.00	25.69%	$ 2,160.90	$ 371.80
3.5.65		MC6A-31Sx	Optical 1 x OC-3 HD shelf interface (1310 nm) Short Reach/ Protected 1 + 1; FC, SC, ST, D4 Connectors			No Longer Available From Manufacturer	

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -25

SPO Price List No. 00-18
12/1/99 to 11/30/01

GROUP I: PURCHASE							
Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)	Installation Price ($)
Replaces 3.5.65		MC6A-31xS MC6A-31FS (FC Connector) MC6A-31CS (SC Connector) MC6A-31TS (ST Connector) MC6A-31DS (D4 Connector)	Supports PLM, PDI, and MC6A-31Lx features (Optical 1 x OC-3 middle-speed interface (1310 nm) short reach; less than 8 km span length; protected 1+1; 0ºC to 50ºC; common with 2400 ADM HD Trib/ 600 ADM; FC, SC, ST, D4 connector(s); optical power level = low)	$ 2,591.00	13.65%	$ 2,237.20	$ 385.00
3.5.66		MC6A-2LX1 MC6A-2LR1 (FC Connector) MC6A-2LC1 (SC Connector) MC6A-2LT1 ST Connector) MC6A-2LD1 (D4 Connector)	OC-12/c 1310 nm HD Shelf, FC, SC, ST, D4 Connectors	$ 9,640.00	30.45%	$ 6,704.60	$ 1,152.80
Additional Part (Item 3.5.66)		a1 MC6A-31FA (FC Connector) MC6A-31CA (SC Connector) MC6A-31TA ST Connector) MC6A-31DA (D4 Connector)	Multi-Mode Middle-speed channel unit OC-3 (short reach); supports the OC-3 Trib interface as follows: Line interface 1555.52 Mb/s optical signal, Optical power level: low, Optical wavelength 1270 to 1360 nm, Operation temperature range: -40º to +65ºC, Span length: short reach (5.1 km typical); Multiplexes and demultiplexes three STS-1 signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR and BLSR applications; Provides terminal and facility lookback functions; Monitors BER; Provides provisionable payload defect indication (PDI) signal STS-1/STS-3s paths when used for UPSR and BLSR applications; Supports SONET/SDH; Unit common to FLM150ADM, FLM-600ADM, and LM-2400ADM system that accomodate multi-mode fiber connections	$ 2,908.00	23.07%	$ 2,237.20	$ 385.00

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -26

SPO Price List No. 00-18
12/1/99 to 11/30/01

				GROUP I: PURCHASE				
Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)		Installation Price ($)
3.5.67		MC6A-2LX2 MC6A-2LR2 (FC Connector) MC6A-2LC2 (SC Connector) MC6A-2LT2 ST Connector) MC6A-2LD2 (D4 Connector)	OC- 12/c 1550 nm HD Shelf, FC, SC, ST, D4 Connectors	$ 20,742.00	21.03%	$ 16,380.00		$ 2,816.00
3.5.68		MC6A-2THR	Passes Clock signal in OC-12 HD TRIB applications	$ 962.00	48.77%	$ 492.80		$ 85.80
3.5.69	MS2T	MS2T-D31	Middle Speed Switch - DS3 and EC-1 interface units	$ 818.00	31.54%	$ 560.00		$ 96.80
3.5.70		MS2T-S1	Middle Speed Switch - STS-1			Not An Available Product		
Tributary Shelf Common Plug-in Units								
3.5.71	PW1A	PW1A	Power Supply (Typically used in the FLM-150ADM; does not support OC-3/OC-12 in HD TRIB; Cannot be mixed with PW1A-TRIB unit)	$ 677.00	40.44%	$ 403.20		$ 70.40
3.5.72		PW1A-TRIB	Power Unit, supports HD TRIB optics as well as HD TRIBs with DS3 and STS-1 interfaces	Duplicate Item, Please See Item 3.5.30		Duplicate Item, Please See Item 3.5.30		
3.5.73	HS2T	HS2T-D3	Group Processor- DS3	Duplicate Item, Please See Item 3.5.31		Duplicate Item, Please See Item 3.5.31		
3.5.74		HS2T-S1	Group Processor- STS-1	Duplicate Item, Please See Item 3.5.32		Duplicate Item, Please See Item 3.5.32		
3.5.75		HS2T-C3	Group Processor- OC-3	Duplicate Item, Please See Item 3.5.33		Duplicate Item, Please See Item 3.5.33		
3.5.76		HS2T-SDL	Group Processor, Required for STS-1 interfaces W/ SDCC & SWDL			No Longer Available From Manufacturer		
Replaces 3.5.76		HS2T-SDL2	SWDL High-speed STS-1 switch-- Used when tributary signal type is EC-1; Controls switching of HC2T units; Accesses SONET overhead bytes; Provides SDCC extensions on EC-1 interfaces; Controls switching of HC2T units; Supports synchronization Status Messaging for release 10S/10BS and later	$ 3,042.00	2.94%	$ 2,952.60		$ 508.20

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -27

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)	Installation Price ($)
3.5.77		HS2T-C3DL	Group processor, Required for OC-3/c, OC-12/c interfaces W/ SDCC & SWDL, Use W/A1/2/4	Duplicate Item, Please See Item 3.5.35		Duplicate Item, Please See Item 3.5.35	
3.5.78		MP2T-T12	TRIB Shelf Microprocessor- all applications with TSA x 48 STS-1 and single TID	$ 6,515.00	36.65%	$ 4,127.20	$ 709.50
3.5.79		MP2T-DL	TRIB Shelf Processor (MPU) SWDL	Duplicate Item, Please See Item 3.5.37		Duplicate Item, Please See Item 3.5.37	
3.5.80	HT2H	HT2T-LT1X	High Speed Transmitter-OC-48, 1310 nm, Basic, FC Connector			Duplicate Item, Please See Item 3.5.38	
3.5.81		HT2TH-LR1H	High Speed Transmitter-OC-48, 1310 nm, High 10E-13 BER			Duplicate Item, Please See Item 3.5.39	
3.5.82		HT2H-LR2X	High Speed Transmitter-OC-48, 1550 nm, Basic			Duplicate Item, Please See Item 3.5.40	
3.5.83		HT2H-LR2H	High Speed Transmitter-OC-48, 1550 nm, High			Duplicate Item, Please See Item 3.5.41	
3.5.84		HT2H-NB21	High Speed Transmitter-OC-48, 1559 nm, narrowband			Duplicate Item, Please See Item 3.5.42	
3.5.85		HT2H-L1BX	High Speed Transmitter-OC-48, 1310 nm, SC or D4 Connector			Duplicate Item, Please See Item 3.5.43	
3.5.86		HT2H-L2BC	High Speed Transmitter-OC48, 1550 nm, SC or D4 Connector			Duplicate Item, Please See Item 3.5.44	
3.5.87		HT2H-NBF1	High Speed Transmitter-OC-48, 1558 nm, for WDM, EDFA			Duplicate Item, Please See Item 3.5.45	
3.5.88		HT2H-NBF2	High Speed Transmitter-OC-48, 1536 nm, for WDM, EDFA			Duplicate Item, Please See Item 3.5.46	
3.5.95	HM2H	HM2H-A1	Muldem-TSA, all applications except Regen			Duplicate Item, Please See Item 3.5.53	
3.5.96		HM2H-A2	Muldem-1+1, 1:N Working, no TSA			Duplicate Item, Please See Item 3.5.54	
3.5.97		HM2H-A3	Muldem, Section Terminating Regen, no TSA			Duplicate Item, Please See Item 3.5.55	
3.5.98		HM2H-B1	Muldem, timing control for BLSR			Duplicate Item, Please See Item 3.5.56	
Tributary Shelf Transport Plug-in Units							
3.5.99	HC2T	HC2T-MDL	High Speed-Terminal and Ring, DS3, STS-1, & OC-3			Duplicate Item, Please See Item 3.5.57	
3.5.100		HC2T-C12L	High Speed-Terminal and Ring, OC-12			Duplicate Item, Please See Item 3.5.58	

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -28

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)	Installation Price ($)
3.5.101	MC6A	MC6A-D3E	Middle Speed-3xDS3			Duplicate Item, Please See Item 3.5.59	
3.5.102		MC6A-D3E2	Electrical 3 x DS3 interface (Enhanced), protected 1:4 in quad. Switch on unequipped code.			Duplicate Item, Please See Item 3.5.60	
3.5.103		MC6A-ST1E	Middle Speed-3xSTS-1			Duplicate Item, Please See Item 3.5.61	
3.5.104		MC6A-3BRD	Middle Speed Bridge for OC-3			Duplicate Item, Please See Item 3.5.62	
3.5.105		MC6A-31MX	Middle Speed-OC-3 Intermediate Reach, 1310 nm, Hardened, FC, SC, ST, D4 Connectors			Duplicate Item, Please See Item 3.5.63	
3.5.106		MC6A-31LX	Middle Speed-OC-3 Long Reach, 1310 nm, Non-Hardened, FC, SC, ST, D4 Connectors			Duplicate Item, Please See Item 3.5.64	
3.5.107		MC6A-31SX	Optical 1 x OC-3 HD shelf interface (1310 nrn) Short reach/ protected 1+1, FC, SC, ST, D4 Connectors			Duplicate Item, Please See Item 3.5.65	
3.5.108		MC6A-2LX1	OC- 12/c 13 10 nm HD Shelf, FC, SC, ST, D4 Connectors			Duplicate Item, Please See Item 3.5.66	
3.5.109		MC6A-2LX2	OC-12/c 1550 nm HD Shelf, FC, SC, ST, D4 Connectors			Duplicate Item, Please See Item 3.5.67	
3.5.110		MC6A-2THR	Passes Clock signal in OC-as HD TRIB applications			Duplicate Item, Please See Item 3.5.68	
3.5.111	MS2T-D31	MS2T-D31	Middle Speed Switch-DS3			Duplicate Item, Please See Item 3.5.69	
3.5.112		MS2T-S1	Middle Speed Switch-STS-1			Duplicate Item, Please See Item 3.5.70	
3.6 FLM OPX							
EDFA, WDM and Alarm Unit Lists							
3.6.1	ALM	Shelf-OPX	shelf			Not An Available Product	
3.6.2	OP	ALM-OPX	Alarm Unit			Not An Available Product	
3.6.3		OP-PF21	EDFA Unit (Laser type = 1558 ±5nm (_1), FC connector)			Not An Available Product	
3.6.4		OP-PF22	EDFA Unit (Laser type = 1536 ±5nm (_2), FC connector)			Not An Available Product	
3.6.5		OP-WF1	WDM Unit (Tx side Laser type - _1, Rx side laser type= _2, FC connector)			Not An Available Product	
3.6.6		OP-WF2	WDM Unit (Tx side Laser type= _1, FC connector)			Not An Available Product	
3.7 FLM 50/150							
Common Plug-in Units							
3.7.4	PWR	PWR	Power Supply			No Longer Available From Manufacturer	

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -29

SPO Price List No. 00-18
12/1/99 to 11/30/01

GROUP I: PURCHASE							
Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)	Installation Price ($)
3.7.5	AOW	AOW-ALM	Alarm Only			No Longer Available From Manufacturer	
3.7.6		AOW-INTI	Alarm, Orderwire-Interoffice			No Longer Available From Manufacturer	
3.7.7		AOW-INT2	Alarm, Orderwire-Housekeeping-Interoffice			No Longer Available From Manufacturer	
3.7.8		AOW-LOP2	Alarm, Orderwire-Housekeeping-Loop			No Longer Available From Manufacturer	
3.7.9	OHA	OHA-STD	Overhead Access w/VF			No Longer Available From Manufacturer	
3.7.10		OHA-VF	Overhead Access w/VF			No Longer Available From Manufacturer	
3.7.11		OHA-SD2	Overhead Access-TL1/X.25			No Longer Available From Manufacturer	
3.7.12		OHA-VF2	Overhead Access w/VF-TL1/X.25			No Longer Available From Manufacturer	
3.7.13	OIU	O1U-PL3	OS Interface- Parallel, w/TBOSS & w /8-bit modem int.			No Longer Available From Manufacturer	
3.7.14		OIU-TB4	OS Interface-TBOS, w/8-bit modem int.			No Longer Available From Manufacturer	
3.7.15		OIU-F5	OS Interface-FSI			No Longer Available From Manufacturer	
3.7.16		OIU-PL	OS Interface-Parallel, w/TBOS			No Longer Available From Manufacturer	
3.7.17	MPU	MPU-LOC	MPU-Local Access			No Longer Available From Manufacturer	
3.7.18		WU-SYS	MPU-System Access			No Longer Available From Manufacturer	
3.7.19		MPU-PH2	MPU-TL1/X.25			No Longer Available From Manufacturer	
Transport Plug-in Units							
3.7.20	LSCH	LSCH-D1	DS1 Low Speed- VT1.5 Mapping			No Longer Available From Manufacturer	
3.7.21		LSCH-D3	DS3 Low Speed-DS3 Mapping			No Longer Available From Manufacturer	
3.7.22		LSCH-M12	DS1 Low Speed-DS3 Mapping			No Longer Available From Manufacturer	
3.7.23		Test Unit	Streaker Card-Test Only			No Longer Available From Manufacturer	

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -30

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	**Slot**	**Unit Type**	**Description**	**Manufacturer List Price($)**	**% of List**	**Purchase Price ($)**	**Installation Price ($)**
3.7.24	LSSW	LSSW	Low Speed Switch			No Longer Available From Manufacturer	
3.7.25	HSCH	HSCH-LW31	OC-3 High Speed-D1/D3 Units(RI)			No Longer Available From Manufacturer	
3.7.26		HSCH-LW33	OC-3 High Speed-D1/D3 Units (LR)			No Longer Available From Manufacturer	
3.7.27		HSCH-ML11	OC-1 High Speed-D1/D3 M12 Units (RI)			No Longer Available From Manufacturer	
3.7.28		HSCH-ML31	OC-3 High Speed-D1/D3/M12 Units (RI)			No Longer Available From Manufacturer	
3.7.29		HSCH-ML33	OC-3 High Speed-D1/D3/M12 Units (LR)			No Longer Available From Manufacturer	
3.7.30		HSCH-ML34	OC-3 High Speed-D1/D3/M12 Units(LR) w/Clock Output			No Longer Available From Manufacturer	
3.7.31		HSCH-ML36	OC-3 High Speed-D1/D3/M12 Units (1550 nm)			No Longer Available From Manufacturer	
3.7.32		HSCH-ML37	OC-3 High Speed-D1/D3/MW12 Units (1550 nm)			No Longer Available From Manufacturer	
3.7.33		MSCH-M23	DS3 High Speed			No Longer Available From Manufacturer	
3.8 NETWORK MANAGEMENT SYSTEM							
3.8.1		FLEXR	Flexible User Interface software package to provision, maintain and monitor FLMs and FACTRs	$ 2,308.00	85.02%	$ 345.80	$ 53.90
3.8.2		FLEXR Plus	Network Management software application and element manager for SONET product line. (Basic expansion from an existing 50 NE system to a 100 NE system)	$ 49,300.00	-22.47%	$ 60,376.40	$ 8,181.80
3.9 ANCILLIARY EQUIPMENT							
3.9.1		HA15B-0001-A046	Terminal Bay Configuration: 7' blue Hendry rack, fuse & alarm panel, power and alarm wiring	$ 3,374.15	3.45%	$ 3,257.80	$ 561.00
3.9.2			7' Blue Hendry Rack	$ 389.73	3.45%	$ 376.29	$ 64.90
3.9.3		ISC-77	Instant Service Cabinet	$ 4,428.00	0.12%	$ 4,422.60	$ 761.20
3.9.4		ISC-77AE	Instant Service Cabinet Configuration. Includes Ancilliary Equipment	$ 9,808.00	9.00%	$ 8,925.00	$ 1,534.50
3.9.5		HA15B-0001-B030	Fuse and Alarm Panel (FC9604FA21)	$ 777.20	3.45%	$ 750.40	$ 129.80

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -31

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)	Installation Price ($)
3.9.6		HA15B-0001-B024	Fuse and Alarm Panel	$ 790.25	3.45%	$ 763.00	$ 132.00
3.10 BACKUP POWER SYSTEM							
3.10.1		HA15B-0001-B023	MPS Shelf	$ 852.00	26.88%	$ 623.00	$ 107.80
3.10.2		HA15B-0001-B043	Battery Shelves	$ 783.00	54.94%	$ 352.80	$ 61.60
3.10.3		FC9604MNC2	Monitor Control Shelves	$ 502.00	21.08%	$ 396.20	$ 68.20
3.10.4		FC9604SWA2	Switch Alarm Card	$ 466.00	20.69%	$ 369.60	$ 63.80
3.10.5		FC9604REC2	Rectifier Unit	$ 1,035.00	21.00%	$ 817.60	$ 140.80
3.10.6		FC9602PWC2	Power Control Unit			Not An Available Product	
Corrects Unit Type 3.10.6		FC9604PWC2	Power Control Unit	$ 305.00	20.59%	$ 242.20	$ 41.80
3.10.7			12V Lead Acid Battery Packs	$ 212.00	10.85%	$ 189.00	$ 33.00
3.11 CABLES							
3.11.1	ALM	21-339-002	Office alarm relay closures			No Longer Available From Manufacturer	
3.11.2		21-452-006	Same as above	$ 49.56	3.45%	$ 47.85	$ 8.80
3.11.3	OHA	21-538-xxx (21-538-050)	Access for unused SONET overhead	$ 32.00	27.81%	$ 23.10	$ 4.40
3.11.4	EXT CLK	21-615-xxx (21-615-075)	External clock-secondary	$ 77.31	3.44%	$ 74.65	$ 13.20
3.11.5		21-614-xxx (21-614-050)	External clock-primary	$ 42.96	3.45%	$ 41.48	$ 7.70
3.11.6	H.K.2	21-537-xxx (21-537-050)	Housekeeping outputs	$ 180.00	67.04%	$ 59.33	$ 11.00
3.11.7	H.K.1	21-626-xxx (21-626-050)	Housekeeping inputs	$ 180.00	77.79%	$ 39.97	$ 7.70
3.11.8	OW/E2A1	22-605-xxx (21-605-050)	Orderwire, & TBOS INTF (bridging)	$ 39.96	3.45%	$ 38.58	$ 7.70
3.11.9	OW/E2A	21-185-xxx (21-185-025)	Orderwire/132A alarm cable (bridging)	$ 43.89	3.44%	$ 42.38	$ 7.70
3.11.10	OSS1	21-532-xxx (21-532-050)	X.25/TL1 or X.25/CMISE OSS link	$ 69.15	3.44%	$ 66.77	$ 12.10
3.11.11		21-153-xxx (21-153-050)	X.25 OSS link cable (AI switch)	$ 82.87	3.45%	$ 80.01	$ 14.30
3.11.12		21-534-xxx (21-534-050)	X.25/OSS back-to-back link	$ 86.55	3.44%	$ 83.57	$ 15.40

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -32

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE					
Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)		Installation Price ($)
3.11.13	DS1 GPs3,4,5	21-822-xxx (21-822-050)	DS1 signal input and output groups	$ 118.07	3.45%	$ 114.00	$	19.80
3.11.14	STS-1 GP1,GP2 DS3	20-020-001	STS-1 signal input and output - (3 Coax/Sheath Bulk 735A)	$ 3.41	3.52%	$ 3.29	$	1.10
3.11.15		21-312-001	Single Coax (1' BNC-BNC)	$ 14.50	3.45%	$ 14.00	$	3.30
3.11.16	PWR	22-515-xxx (21-515-050)	48V battery supply (Main A, B), battery return (GA, GB), frame ground (FG). With connector labels	$ 71.99	3.44%	$ 69.51	$	12.10
3.11.17		22-516-xxx	48V battery supply (Main A, B), battery return (GA, GB), frame ground (FG). No labels.			Not An Available Product		
3.11.18		21-337-xxx (21-337-050)	Office alarm relay closure bus cable			Not An Available Product		
3.11.19		21-339-xxx (21-339-025)	Office alarm relay closure cable	$ 52.43	3.45%	$ 50.62	$	8.80
3.11.20		21-452-xxx (21-452-050)	Office alarm relay closure cable	$ 27.81	3.45%	$ 26.85	$	5.50
600 Tributary Shelf Transport Plug-in Units								
Additional Part		HA15B-0001-B126	Heat Shield/ Fiber Storage	$ 351.00	17.04%	$ 291.20	$	50.60
Additional Part		FC9616FAC2	Faceplate Cover for Shelf	$ 829.00	67.74%	$ 267.40	$	46.20
Additional Part	PW6A	PW6A	Power Supply	$ 1,610.00	68.32%	$ 510.00	$	87.66
Additional Part		HS6A-AD2	High Speed Switch/Overhead Access, required for Terminal nodes in Regen applications	$ 2,735.00	29.87%	$ 1,918.00	$	330.00
Additional Part		MP6A-24DL	Supports software download and MP6A-24G features	$ 5,768.00	74.37%	$ 1,478.40	$	255.20
Additional Part		TCA-ENH	Enhanced TCA unit, supports sync messaging application	$ 1,205.00	41.68%	$ 702.80	$	121.00
Additional Part	AW6A	AW6A-BSC	Alarm and Orderwire- Alarm Only	$ 598.00	13.04%	$ 520.00	$	89.37
Additional Part		HC6A-6EL2	High Speed- 2.4 Gb/s Upgrade; Ring, Term LNR ADM (can drop OC-12 TRIBs from shelf)	$ 7,308.00	66.28%	$ 2,464.00	$	424.60
Additional Part		SV6A-24G	Supervisory- 2.4 Gb/s Upgrade	$ 5,846.00	91.57%	$ 492.80	$	85.80

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -33

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)	Installation Price ($)
Additional Part		Cable (CAB3)	Interconnects 600 Tributary interface cards: HC6A-6EL2 to HC6A-6EL2. Used front-of-card to front-of-card; UPSR applications.	$ 192.00	30.73%	$ 133.00	$ 23.10
Additional Part		Cable (CAB4)	Signal cables between HS shelf and HCA6-6EL2 units in FLM 600 ADM TRIB shelf; used to inter-connect HS shelf with HD Tributary shelves	$ 192.00	30.73%	$ 133.00	$ 23.10
Additional Part		Tributary Interface Cable	Intershelf cable; 5'	$ 91.00	27.69%	$ 65.80	$ 12.10
Additional Part		Tributary Interface Cable	Intershelf cable; 7"	$ 158.00	58.35%	$ 65.80	$ 12.10
Additional Part		EC6A-24G	EOC Processor- used for 2.4G connection	$ 2,666.00	25.59%	$ 1,983.80	$ 341.00
Additional Part		SV6A-24G	Supervisory- 2.4 Gb/s Upgrade	$ 5,846.00	91.57%	$ 492.80	$ 85.80
Additional Part		MC6A-D3A2	Middle Speed- 3 x DS3 interface/ protected 1:1; (Provides unequipped code switching and STS-1 AIS injection)	$ 2,202.00	37.12%	$ 1,384.60	$ 238.70
Additional Part		MC6A-ST1P	Middle Speed Channel Unit ST1P. Provides POH, UNEQ, PDI, AIS generation and PLM	$ 2,243.00	44.82%	$ 1,237.60	$ 213.40

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -34

SPO Price List No. 00-18
12/1/99 to 11/30/01

GROUP I: PURCHASE							
Item No.	**Slot**	**Unit Type**	**Description**	**Manufacturer List Price($)**	**% of List**	**Purchase Price ($)**	**Installation Price ($)**
Additional Part		MC6A-31xM MC6A-31FM (FC Connector) MC6A-31CM (SC Connector) MC6A-31MT (ST Connector) MC6A-31DM (D4 Connector)	Middle-speed channel Unit - OC-3 (Intermediate Reach); Supports the OC-3 tributary interface as follows: Line interface 155.52 Mb/s optical signal; Optical power level = middle; Optical wave length = 1310 nm; Operation temperatur range: -40º to +65ºC; span length = intermediate reach (15 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; drops/inserts Section and Line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR applications only); Provides terminal and facility loopback functions; Monitors the bit error rate (BER); Provides provisionable Payload Defect Indication (PDI) signal STS-1/STS-3c paths used for UPSR applications when mounted in FLM600ADM and FLM600TRIB shelves; Supports Payload label Mismatch (PLM signal STS-1/STS-3c path code used for UPSR applications when mounted in FLM600ADM and FLM600TRIB shelves; Unit common to FLM150ADM, FLM600ADM, and FLM2400ADM	$ 2,908.00	25.69%	$ 2,160.90	$ 371.80
Additional Part		MC6A-31xL MC6A-31FL (FC Connector) MC6A-31CL (SC Connector) MC6A-31TL (ST Connector) MC6A-31DL (D4 Connector)	Supports PLM, PDI and MC6A-31Lx features (Middle-speed channel unit - OC-3 (long reach; Supports the OC-3 trib interfaces as follows: Line interface: 155.52 Mb/s optical signal' Optical power level = High, Optical wavelength: 1310 nm, Operation temperature range: -40º through +65ºC, Span length: Long reach (40 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switchuing at STS-1 or STS-3c levels; Unit common to FLM-150ADM, FLM-600ADM, and FLM-2400ADM)	$ 2,908.00	30.43%	$ 2,023.00	$ 348.70

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -35

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP I: PURCHASE				
Item No.	**Slot**	**Unit Type**	**Description**	**Manufacturer List Price($)**	**% of List**	**Purchase Price ($)**	**Installation Price ($)**
Additional Part		MC6A-31Sx MC6A-31SR (FC Connector) MC6A-31SC (SC Connector) MC6A-31ST (ST Connector) MC6A-31SD (D4 Connector)	Middle Speed- OC-3 Short Reach, 1310 nm, FC, SC, ST, D4 Connectors (Optical 1 x OC-3 middle-speed interface (1310 nm) short reach; less than 8 km span length; protected 1+1; 0ºC to 50ºC; common with 2400 ADM HD Trib/ 600 ADM; FC, SC, ST, D4 connector(s); optical power level = low)	$ -	0.00%	$ -	$ -
Additional Part		MC6A-31xS MC6A-31FS (FC Connector) MC6A-31CS (SC Connector) MC6A-31TS (ST Connector) MC6A-31DS (D4 Connector)	Supports PLM, PDI, and MC6A-31Lx features (Optical 1 x OC-3 middle-speed interface (1310 nm) short reach; less than 8 km span length; protected 1+1; 0ºC to 50ºC; common with 2400 ADM HD Trib/ 600 ADM; FC, SC, ST, D4 connector(s); optical power level = low)	$ 2,591.00	13.65%	$ 2,237.20	$ 385.00
Additional Part		MC6A-31xA MC6A-31FA (FC Connector) MC6A-31CA (SC Connector) MC6A-31TA ST Connector) MC6A-31DA (D4 Connector)	Multi-Mode Middle-speed channel unit OC-3 (short reach); supports the OC-3 Trib interface as follows: Line interface 1555.52 Mb/s optical signal, Optical power level: low, Optical wavelength 1270 to 1360 nm, Operation temperature range: -40º to +65ºC, Span length: short reach (5.1 km typical); Multiplexes and demultiplexes three STS-1 signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR and BLSR applications; Provides terminal and facility lookback functions; Monitors BER; Provides provisionable payload defect indication (PDI) signal STS-1/STS-3s paths when used for UPSR and BLSR applications; Supports SONET/SDH; Unit common to FLM150ADM, FLM-600ADM, and LM-2400ADM system that accomodate multi-mode fiber connections	$ 2,908.00	23.07%	$ 2,237.20	$ 385.00
Additional Part		MS6A-OPT2	Supports synchronization status messaging and MS6A-OPT features	$ 1,323.00	28.36%	$ 947.80	$ 163.90
3.12 LABOR							
3.12.1		Hourly Rate	General labor			$ -	$ 82.50

Fujitsu SONET
and Related Equipment
Group I: Purchase

Group I -36

SPO Price List No. 00-18
12/1/99 to 11/30/01

GROUP I: PURCHASE							
Item No.	Slot	Unit Type	Description	Manufacturer List Price($)	% of List	Purchase Price ($)	Installation Price ($)

Fujitsu SONET
and Related Equipment

Group I: Purchase

Group I -37

SPO Price List No. 00-18
12/1/99 to 11/30/01

| **GROUP II: LEASE (12-MONTH)** |

GROUP II: LEASE (12-MONTH)
(Lease rates do not include the use tax of .5%)

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)	
3.1 FACTR					
CMS Common Plug-in Units					
3.1.1	Shelf	SF1C	FACTR Common Shelf	No Longer Available From Manufacturer	
Replaces 3.1.1	Shelf	HA15B-0001-B247	FACTR Common Shelf	$	81.23
3.1.2	PW1C	PW1C	Power unit for CMS	$	25.14
3.1.3	SV1C	SV1C-PB	Supervisory (OS) interface for TL1/ X.2 5; user TL1 commands, FLEXR	$	121.60
3.14		SV1C-PB2	Supports SV1C-PB features, Data Communication Channel (DCC) access, and processing of the SONET overhead for the high-speed line	$	121.60
3.15		SV1C-DL1	Supervisory- TL1/ X.25, user TL1 commands, supports software download, FLEXR	No Longer Available From Manufacturer	
3.16		SV1C-DL2	Supports SV 1C-PB features and Local Communication Network (LCN) based OSS interface	$	98.44
3.1.7	MP1C	MP1C-BSC	Main CPU for SONET portion	$	85.20
3.1.8		MP1C-DL1	Main CPU for SONET portion, supports software download	No Longer Available From Manufacturer	
3.1.9		MP1C-DL2	Supports MP1C-DL1 features and Local Communication Network (LCN) based OSS interface	$	75.91
3.1.10	EM1C	EM1C-BSC	Main CPU for DLC portion (TR-008)	$	94.61
3.1.11		EM1C-DL1	Main CPU for DLC portion (TR-008)	$	66.37
3.1.12	AW1C	AW1C-BSC	Alarm unit	$	18.95
3.1.13		AW1C-ENH	Alarm and orderwire unit	$	194.54
3.1.14		AW1C-ENH2	Supports AW1C-BSC features, and two and four wire voice frequency extension	$	194.54
3.1.15	TC1C	TC1C	Timing control unit external timing input available	$	22.17
3.1.16		TC1C-ENH	Support TC1C features and synchronization messaging	$	103.40
3.1.17	TS1C	TS1C-NB	Time slot assignment unit, serves first 960 subscriber lines (TR-008 modes I, II, & III)	$	94.11
3.1.18		TS1C-NE2	Time slot assignment unit, serves first 960 subscriber lines (TR-008 modes I, II, & III) TR-303 4:1 TDM support	$	40.86
3.1.19	EX1C	EX1C-NB	Time slot assignment unit, serves second 960 subscriber lines (TR-008 modes I, II, & III)	$	379.66
3.1.20		EX1C-NE2	Time slot assignment unit, serves second 960 subscriber line (TR-008 modes I, II, & III) TR-303 4:1 TDM support	$	400.84

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 1

			GROUP II: LEASE (12-MONTH)		
			(Lease rates do not include the use tax of .5%)		
Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)	
3.1.21	MC1C	MC1C-AS	VT & DS1 termination for NBS/NFS SERVICES (Async)	$	124.33
3.1.22		MC1C-AS2	Supports MC1C-AS features. Supports TR-008 and TR-303	$	58.45
3.1.23		MC1C-APU	Provides ATM datapath and supervisory functions for FASTLANE subsystem. For DS3 UNI, provides traffic management	$	216.21
3.1.24		MC1C-2ET1	Provides up to two Ethernet ports to be ATM mapped into an STS-1 for transport across a SONET network	$	326.91
3.1.25		MC1C-4ET1	Provides up to four Ethemet ports to be ATM mapped into an STS-1 for transport across a SONET network	$	474.76
3.1.26		MC1C-MDM	Multiplexes/ Demultiplexes one STS-1 to 7 VT groups for DS1 extensions from the CMS Protected	$	234.53
3.1.27		MC1C-D3	Provides DS3 extensions from the CMS pROTEC	$	148.47
3.1.28		MC1C-M3A2	Supports MC1C-D3 features, enhanced Performance Monitoring, and PSWOPT	$	148.47
3.1.29		MC1C-D3U	Provides two ports of ATM UNI	$	506.46
3.1.30		MC1C-STS1	Provides STS-1 extensions from the CMS	$	191.94
3.1.31		MC1C-ST1P	Supports MC1C-STS1 features, Payload Label Mismatch (PLM) and Payload Defect Indicator (PDI)	$	191.94
3.1.32		MC1C-MRx1 MC1C-MRC1 (SC Connector) MC1C-MRD1 (D4 Connector) MC1C-MRF1 (FC Connector) MC1C-MRT1 (ST Connector)	Provides middle reach OC-3 extensions from the CMS. Note values for 'x' in Unit Type field	$	275.15
3.1.33		MC1C-TMD3	Demultiplexes the DS3 signals into DS I signals, then maps them to VT1.5 rate signals. STS-1 signals are demapped to DS3 signals.	$	526.53
3.1.34		MC1C-TME1	Demultiplexes the DS3 payload into DS1 rate signals. Maps the DSI signals to the VTI.5 rate signals.	$	526.53
3.1.35	CC1C	CC1C-BSC	Call control unit, TR-008, Mode II only	$	37.15
3.1.36		CC1C-ENH	Call control unit, supports TR-008 Mode II & TR-303, supports Time-slot Management Channel (TMC), Supports software download	No Longer Available From Manufacturer	

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 2

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
3.1.37		CC1C-DL1	Call control unit, supports TR-008 Mode II & TR-303, supports Time-slot Management Channel (TMC), Supports software download	$ 12.14
3.1.38	MA1C	MA1C-ENH	Metallic Access (CMS) Basic Unit	$ 35.54
3.1.39		MA1C-DL1	Supports MA1C-ENH features, software download, and remote memory backup	$ 17.34
3.1.40	DP1C	DP1C	Display (CMS) Unit	$ 13.87
3.1.41	XT1C	XT1C-BSC	Extended Test (CMS) Basic Unit	$ 85.20
3.1.42		XT1C-ENH	Supports XT1C-BSC features and ISDN local test access	$ 106.12
3.1.43	EP1C	EP1C-DL1	EOC processor in TR-303 mode (CMISE with SW/DL)	$ 40.37
CMS Transport Plug-in Units				
3.1.44	LC1A	LC1A-D1	Low-speed 4xDS1	$ 34.67
3.1.45		LC1A-D1E	Enhanced Low-speed 4xDS1	No Longer Available From Manufacturer
3.1.46		LC1A-D1E2	Enhanced Low-spced 4xDS1	$ 84.95
3.1.47		LC1A-F6	Low-speed OVTG	$ 188.35
3.1.48		LC1A-F6x1 LC1A-F6C1 (SC Connector) LC1A-F6T1 (ST Connector) LC1A-F6D1 (D4 Connector)	NOTE: Values for 'x' in Unit Type field	$ 188.35
3.1.49	LS1A	LS1A-D1	LC1A protection switching	$ 27.74
3.1.50	EC1C	EC1C	Control SONET DCC for BT1C tributary in OC-12	$ 179.18
3.1.51		EC1C-DL1	Control SONET DCC for BT1C tributary in OC-12, supports software download	$ 216.33
3.1.52	BT1C	BT1C-D3	Provides DS3 extensions from the CMS, used in OC-12 systems	$ 296.57
3.1.53		BT1C-STS1	Provides STS-1 extensions from the CMS, used in OC-12 systems	$ 198.38
3.1.54		BT1C-ST1P	Supports BT1C-STS features, Payload Label Mismatch (PLM) and Payload Defect Indicator (PDI)	$ 198.38
3.1.55		BT1C-3Mx1	Provides middle reach OC-3 extensions from the CMS, used in OC-12 systems. Note: Values in 'x'	No Longer Available From Manufacturer
3.1.56		BT1C-3Lx1	Provides long reach OC-3 extensions from the CMS, used in OC-12 systems	No Longer Available From Manufacturer

GROUP II: LEASE (12-MONTH)
(Lease rates do not include the use tax of .5%)

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 3

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
Replaces 3.1.55 and 3.1.56		BT1C-MRx1 BT1C-MRF1 (FC Connector) BT1C-MRC1 (SC Connector) BT1C-MRT1 (ST Connector)	Broadband Trib Unit: Optical OC-3 (3 x STS-1) middle reach trib per unit:(FC, ST, SC, D4 conn); UNEQ path switch; adds PDI/PLM; 1:1 protection; 6 max/system, in MSG 6,7,8;:1 required per OC-3 trib; OC-12 UPSR configurations only.	$ 275.15
3.1.57	TS1A	TS1A-ENH	Same as TA1C plus performs path selections and groom into STS-1	$ -
Corrects Description 3.1.57	TS1A	TS1A-ENH	Automatic synchronization switching (NE/derived DS1 primary/derived DS1 secondary reference) by synchronization message; SONET timing can be extracted from the BT1C units	$ 264.87
Additional Part (Item 3.1.57)	TS1A	TS1A-ENH2	Same as TC1C-ENH plus: Provides the VT1.5 to STS-1 Hairpinning Cross-Connect function; Provides Path Switching criterion; Supports PDI/PLM	$ 442.20
3.1.58	HS1A	HS1A-AD2	High speed line & unit protection switch	$ 64.02
3.1.59	HS1C	HS1C	High speed line and unit protection switch for OC-12	$ 72.81
3.1.60	HC1A	HC1A-3MR1 (FC Connector)	High speed OC-3 Intermediate Reach, 1310 nm	$ 152.13
3.1.61		HC1A-3MC1 (SC Connector)	High speed OC-3 Intermediate Reach, 1310 nm, SC Connector	$ 171.26
3.1.62		HC1A-3MT1 (ST Connector)	High speed OC-3 Intermediate Reach, 1310 nm, ST Connector	$ 171.26
3.1.63		HC1A-3MD1 (D4 Connector)	High speed OC-3 Intermediate Reach, 1310 nm, D4 Connector	$ 171.26
3.1.64		HC1A-3LR1 (FC Connector)	High speed OC-3 Long Reach, 1310 nm, FC Connector	$ 151.25
3.1.65		HC1A-3LC1 (SC Connector)	High speed OC-3 Long Reach, 1310 nm, SC Connector	$ 163.95
3.1.66		HC1A-3LT1 (ST Connector)	High speed OC-3 Long Reach, 1310 nm, ST Connector	$ 163.95
3.1.67		HC1A-3LD1 (D4 Connector)	High speed OC-3 Long Reach, 1310 nm, D4 Connector	$ 163.95
3.1.68		HC1A-3LR2 (FC Connector)	High speed OC-3 Very Long Reach, 1550 nm, Non-hardened	$ 959.93
3.1.69		HC1A-3LC2 (SC Connector)	High speed OC-3 Very Long Reach, 1550 nm, SC Connector	$ 959.93

GROUP II: LEASE (12-MONTH)
(Lease rates do not include the use tax of .5%)

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 4

			GROUP II: LEASE (12-MONTH)		
			(Lease rates do not include the use tax of .5%)		
Item No.	**Slot**	**Unit Type**	**Description**	**Monthly Lease Price ($)**	
3.1.70		HC1A-3LT2 (ST Connector)	High speed OC-3 Very Long Reach, 1550 nm, ST Connector, Non-hardened	$	959.93
3.1.71		HC1A-3LD2 (D4 Connector)	High speed OC-3 Very Long Reach, 1550 nm, D4 Connector, Non-hardened	$	959.93
3.1.72		HC1A-3LR3 (FC Connector)	High speed OC-3 Long Reach, Non-hardened	$	167.67
3.1.73		HC1A-3LC3 (SC Connector)	High speed OC-3 Long Reach, 1310 nm, ST Connector, Non-hardened	$	167.67
3.1.74		HC1A-3LT3 (ST Connector)	High speed OC-3 Long Reach, 1310 nm, ST Connector, Non-hardened	$	167.67
3.1.75		HC1A-3LD3 (D4 Connector)	High speed OC-3 Long Reach, 1310 nm, D4 Connector, Non-hardened	$	167.67
3.1.76		HC1A-3SR1 (FC Connector)	High speed OC-3 Short Reach, 1310 nm, FC Connector, Non-hardened	$	127.54
3.1.77		HC1A-3SC1 (SC Connector)	High speed OC-3 Short Reach, 1310 nm, SC Connector, Non-hardened	$	127.54
3.1.78		HC1A-3ST1 (ST Connector)	High speed OC-3 Short Reach, 1310 nm, ST Connector, Non-hardened	$	127.54
3.1.79		HC1A-3SD1 (D4 Connector)	High speed OC-3 Short Reach, 1310 nm, D4 Connector, Non-hardened	$	127.54
Additional Part (Item 3.1.79)	HC1C	MC6A-31FA (FC Connector)	HS Optical 1x OC-3 intfc (1310 nm)Protected 1+1; short Reach Multi-Mode fiber capability; FC CONNECTOR	$	185.25
Additional Part (Item 3.1.79)	HC1C	MC6A-31CA (SC Connector)	HS Optical 1x OC-3 intfc (1310 nm)Protected 1+1; short Reach Multi-Mode fiber capability; SC CONNECTOR	$	185.25
Additional Part (Item 3.1.79)	HC1C	MC6A-31TA (ST Connector)	HS Optical 1x OC-3 intfc (1310 nm)Protected 1+1; short Reach Multi-Mode fiber capability; ST CONNECTOR	$	185.25
Additional Part (Item 3.1.79)	HC1C	MC6A-31DA (D4 Connector)	HS Optical 1x OC-3 intfc (1310 nm)Protected 1+1; short Reach Multi-Mode fiber capability; D4 CONNECTOR	$	185.25
3.1.80	HC1C	HC1C-6LR1	High speed OC-12 Long Reach, 1310 nm, FC Connector	$	804.90
3.1.81		HC1C-6LC1	High speed OC-12 Long Reach, 1310 nm, SC Connector	$	804.90
3.1.82		HC1C-6LT1	High speed OC-12 Long Reach, 1310 nm, ST Connector	$	804.90
3.1.83		HC1C-6LD1	High speed OC-12 Long Reach, 1310 nm, D4 Connector	$	804.90
NBS Common Plug-in Units					

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 5

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
			GROUP II: LEASE (12-MONTH)	
			(Lease rates do not include the use tax of .5%)	
3.1.84	Shelf	SF-1N	FACTR Narrowband Shelf	No Longer Available From Manufacturer
Replaces 3.1.84	Shelf	HA15B-0001-B248	FACTR Narrowband Shelf	$ 50.52
3.1.85	PW1N	PW1N (COT or RT)	Power unit for NBS	$ 15.48
3.1.86	AT1N	AT1N-C	Alarm Control/ Test for COT	$ 81.60
3.1.87		AT1N-R2	Alarm Control/ Test for RT: TR-303	$ 48.42
3.1.88		AT1N-RE	Supports TSC/TRU test interface	No Longer Available From Manufacturer
Replaces 3.1.88		AT1N-RE2	Supports TSC/TRU test interface	$ 91.63
3.1.89	MD1N	MD1N	Mux/Demux units	No Longer Available From Manufacturer
Replaces 3.1.89	MD1N	MD1N2	Mux/Demux unit; Adds TR-303	$ 44.58
FACTR Channel Plug-in Units				
3.1.103	CH	POTS (COT)	POTS Channel Unit - COT	$ 15.11
3.1.104		POTS (RT)	POTS Channel Unit - RT	$ 15.11
3.1.105		POTS (S)	TR-909 Compliant POTS Unit	Not An Available Product
3.1.106		Q-POTS (COT)	Quad POTS Channel Unit - COT	$ 30.83
3.1.107		Q-POTS (RT)	Quad POTS Channel Unit - RT	$ 26.25
3.1.108		Q-POTS (S)	TR-909 Compliant Quad POTS Unit	Not An Available Product
3.1.109		UVC1 (COT)	POTS Channel Unit - COT	$ 24.52
3.1.110		UVC1 (RT)	Universal Channel Unit 1 - RT	$ 25.88
3.1.111		Q-UVC1 (COT)	POTS Channel Unit - COT	$ 40.00
3.1.112		Q-UVC1 (RT)	Universal Voice Channel Unit I - RT	$ 42.35
3.1.113		COIN (COT)	Coin Channel Unit (COT)	$ 26.38
3.1.114		COIN (RT)	Coin Channel Unit (RT)	$ 44.08
3.1.115		VUC2-A	Universal Voice Channel Unit 2-A	$ -
Corrects Unit Type 3.1.115		UVC2A	Universal Voice Channel Unit 2-A	$ 28.60
3.1.116		UVC2-B	Universal Voice Channel Unit 2-B	$ 27.49
3.1.117		4W-1	Four Wire Channel Unit I	$ 21.17

Fujitsu SONET
and Related Equipment
Group II: Lease

Group II - 6

SPO Price List No. 00-18
12/1/99 to 11/30/01

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
GROUP II: LEASE (12-MONTH)				
(Lease rates do not include the use tax of .5%)				
3.1.118		4W-2	Four Wire Channel Unit 2	$ 32.81
3.1.119		4W-3	Four Wire Channel Unit 3	$ 35.79
3.1.120		DSO-DP	Digital Signal Zero Data Port Unit	$ 19.94
3.1.121		OCU-DP	Office Channel Unit Data Port	$ 46.44
3.1.122		DID (COT)	Coin Channel Unit (COT)	$ -
Corrects Description 3.1.122		DID (COT)	Direct Inward Dial Unit (COT)	$ 24.15
3.1.123		DID (RT)	Direct Inward Dial Unit (RT)	$ 34.80
3.1.124		APP (COT)	Active P-Phone Unit (COT)	$ 46.93
3.1.125		APP (RT)	Active P-Phone Unit (RT)	$ 60.92
3.1.126		AN12 (COT)	2-Party ANI Unit (COT)	$ 42.72
3.1.127		AN12 (RT)	2-Party ANI Unit (RT)	$ 44.21
3.1.128		PAS (COT)	POTS Alarm Service (COT)	$ 18.57
3.1.129		PAS (RT)	POTS Alarm Service (RT)	$ 33.31
3.1.130		DCA-L	DC Alarm Card (Loop)	$ 36.16
3.1.131		DCA-P	DC Alarm Card (Polarity Reversal)	$ 43.84
Additional Part (Item 3.1.131)		D-BRU-LT	Basic Rate ISDN "U" Interface-Line; TR-008 using the 3 DS0 method; Dual UnitUsed at the RT	$ 66.50
3.1.132		D-BRU-LT2	Basic Rate U-Interface-Line Term(Dual Card) TR-008 operation using the 3 DS0 method 4:1 D-Channel TDM for TR-303 IDLC	$ 29.35
3.1.133		D-BRU-NT	Basic Rate U-Interface-Ntwk Term	$ 68.60
3.2 FLM 150				
Hardwired Equipment				
3.2.1		HA0IB-0037-A042	Standard Configuration: ADM shelf assembly, faceplate and heat/fiber tray (7'x23"x1" mtg- Central Office Relay Rack Assembly equipped with one FLM-150ADM, F&A panel, heat baffle & fiber tray. (five FLM-150ADMs max per rack))	$ 526.53
Additional Part (Item 3.2.1)		Shelf	ADM Shelf	$ 138.94
3.2.2		HA15B-0001-B106	ADM Shelf Assembly	$ 138.94

Fujitsu SONET
and Related Equipment
Group II: Lease

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
GROUP II: LEASE (12-MONTH)				
(Lease rates do not include the use tax of .5%)				
3.2.3		HA15B-0001-B126	Heat Shield/Fiber Storage	$ 25.76
3.2.4		H15B-5101-B147	OVTG Fiber Tray	$ 20.18
3.2.5		FC9612FAC-I03	Faceplate Cover for Shelf	$ 45.82
Common Plug-in Units				
3.2.6	PW1A	FC9612PW11-I07	Power Unit	$ 35.66
3.2.7	HS1A	HS1A-AD2	High speed Switch/Overhead Access	$ 64.02
3.2.8	MP1A	MP1A-V2	Microprocessor-All TRIB interfaces	$ 80.61
3.2.9		MP1A-V3	Microprocessor-Supports all TRIB interfaces, OC-12 Optics, and TS1A-ENH	$ 80.61
3.2.10		MP1A-ADL	Microprocessor-Supports all TRIB interfaces, OC-12 Optics, and TS1A-ENH, and software download	$ 74.42
3.2.11	AW1A	AW1A-BSC	Alarm-Alarm Only	$ 24.64
3.2.12		AW1A-ENH	Alarm and Order-wire-O/W/, Housekeeping	$ 138.44
3.2.13	SV1A	SV1A-TB	Supervisory-TBOS; all TRIB interfaces	$ 193.05
3.2.14		SV1A-TL4	Supervisory-TL1/X.25; all TRIB interfaces, supports OC-12 & TS1A-ENH, supports software download, TL1 command, FLEXR	$ 203.58
3.2.15		SV1A-TDL	Supervirosy-TL1/X.25; all TRIB interfaces, supports OC-12 & TS1A-ENH, supports software download, TL1 command, FLEXR+C11	$ 188.10
3.2.16	TCA	TCA	Timing Control	No Longer Available From Manufacturer
3.2.17		TCA-ENH	Enhanced TCA unit, supports sync messaging application	$ 62.16
Transport Plug-in Units				
3.2.18	LC1A	LC1A-D1	Low Speed-4xDS1	$ 34.67
3.2.19		LC1A-D1E	Enhanced Low Speed-4xDS1	No Longer Available From Manufacturer
3.2.20		LC1A-D1E2	Enhanced Low Speed-4xDS1	$ 84.95
Additional Part (Item 3.2.20)		LC1A-TIO	Token Ring module; contains the physical connectors and analog circuitry required for token Ring connections	$ 97.58
Additional Part (Item 3.2.20)		LC1A-10BT	Low-speed physical/electrical interface for one Ethernet 10Base-T LAN traffic port	$ 62.66

Fujitsu SONET
and Related Equipment
Group II: Lease

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
3.2.21		Streaker Card	Test Unit-DS1	$ 15.48
3.2.22		LC1A-F6 (FC Connector)	Low Speed-OVTG, available in FC, SC, ST, D4 Connectors	$ 188.35
3.2.23	LS1A	LS1A-D1	Low Speed Switch-DS1/ OVTG	$ 27.74
3.2.24	EC1A	EC1A-V2	EOC Processor (DCC)/OC-3 SwitchOC-3/OVTG/STS-1 Tributary	$ 151.44
3.2.25		EC1A-DL2	EOC Processor (DCC)/OC-3 Switch-OC-3/OVTG/STS-1 Tributary, supports software download	$ 332.73
3.2.26	MCXA	MC1A-MDM1	Middle Speed-DSI/ OVTG Muldem	$ 38.51
3.2.27		MC1A-D3A2	Middle Speed-DS3, Provides STS-1, Unequipped code path switching and STS- I AIS injection	$ 103.52
Additional Part (Item 3.2.27)		MC1A-TMD3	Middle-speed channel Transmux unit; provides the interface and input/output processing for DS-3 rate signals	$ 463.37
3.2.28		MC1A-STS1	Middle Speed- STS-1	No Longer Available From Manufacturer
Replaces 3.2.28		MC1A-ST1P	Middle Speed- STS-1 Channel Unit with the EC-1 interface	$ 127.05
3.2.29		MC6A-31Mx	Middle Speed- OC-3 Intermediate Reach, 1310 nm, FC, SC, D4 Connectors	No Longer Available From Manufacturer
Replaces 3.2.29		MC6A-31xM MC6A-31FM (FC Connector) MC6A-31CM (SC Connector) MC6A-31MT (ST Connector) MC6A-31DM (D4 Connector)	Middle-speed channel Unit - OC-3 (Intermediate Reach); Supports the OC-3 tributary interface as follows: Line interface 155.52 Mb/s optical signal; Optical power level = middle; Optical wave length = 1310 nm; Operation temperatur range: -40º to +65ºC; span length = intermediate reach (15 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; drops/inserts Section and Line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR applications only); Provides terminal and facility loopback functions; Monitors the bit error rate (BER); Provides provisionable Payload Defect Indication (PDI) signal STS-1/STS-3c paths used for UPSR applications when mounted in FLM600ADM and FLM600TRIB shelves; Supports Payload label Mismatch (PLM signal STS-1/STS-3c path code used for UPSR applications when mounted in FLM600ADM and FLM600TRIB shelves; Unit common to FLM150ADM, FLM600ADM, and FLM2400ADM	$ 191.13

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01
Group II - 9

			GROUP II: LEASE (12-MONTH) (Lease rates do not include the use tax of .5%)	

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
3.2.30		MC6A-31Lx	Middle Speed- OC-3 Long Reach, 1310 nm, FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer
Replaces 3.2.30		MC6A-31xL MC6A-31FL (FC Connector) MC6A-31CL (SC Connector) MC6A-31TL (ST Connector) MC6A-31DL (D4 Connector)	Middle-speed channel unit - OC-3 (long reach; Supports the OC-3 trib interfaces as follows: Line interface: 155.52 Mb/s optical signal' Optical power level = High, Optical wavelength: 1310 nm, Operation temperature range: -40º through +65ºC, Span length: Long reach (40 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switchuing at STS-1 or STS-3c levels; Unit common to FLM-150ADM, FLM-600ADM, and FLM-2400ADM	$ 191.13
3.2.31		MC6A-3LX2	Middle Speed- OC-3 Very Long Reach, 1550 nm, FC, SC, ST, D4 Connectors, Non-hardened	No Longer Available From Manufacturer
3.2.32		MC6A-3SX1	Middle Speed- OC-3 Short Reach, 1310 nm, FC, SC, ST, D4 Connectors, Non-hardened	No Longer Available From Manufacturer
Replaces 3.2.32		MC6A-31xS MC6A-31FS (FC Connector) MC6A-31CS (SC Connector) MC6A-31TS (ST Connector) MC6A-31DS (D4 Connector)	Optical 1 x OC-3 middle-speed interface (1310 nm) short reach; less than 8 km span length; protected 1+1; 0ºC to 50ºC; common with 2400 ADM HD Trib/ 600 ADM; FC, SC, ST, D4 connector(s); optical power level = low	$ 197.88

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 10

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
Additional Part (Item 3.2.32)		MC6A-31xA MC6A-31FA (FC Connector) MC6A-31CA (SC Connector) MC6A-31TA ST Connector) MC6A-31DA (D4 Connector)	Multi-Mode Middle-speed channel unit OC-3 (short reach); supports the OC-3 Trib interface as follows: Line interface 1555.52 Mb/s optical signal, Optical power level: low, Optical wavelength 1270 to 1360 nm, Operation temperature range: -40º to +65ºC, Span length: short reach (5.1 km typical); Multiplexes and demultiplexes three STS-1 signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR and BLSR applications; Provides terminal and facility lookback functions; Monitors BER; Provides provisionable payload defect indication (PDI) signal STS-1/STS-3s paths when used for UPSR and BLSR applications; Supports SONET/SDH; Unit common to FLM150ADM, FLM-600ADM, and LM-2400ADM system that accomodate multi-mode fiber connections	$ 197.88
3.2.33	TS1A	TS1A-BSC	Time-Slot Assignment- VT-1.5, STS-1	$ 264.87
3.2.34		TS1A-ENH	Enhanced Time Slot Assignment -VT1.5, STS-1; provides VT1.5 path selection and groorning into an EC-1 or OC-3 tributary	$ 264.87
3.2.35		TS1A-ENH2	Provides VTl.5 to STS-1 hairpinning cross-connect function. Supports TS1A-ENH features.	$ 442.20
3.2.36	HC1A	HC1A-3MX1	High Speed- OC-3 Intermediate Reach, 1310 nm, FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer
3.2.37		HC1A-3LX1 HC1A-3LR1 (FC Connector) HC1A-3LC1 (SC Connector) HC1A-3LT1 (ST Connector) HC1A-3LD1 (D4 Connector)	High Speed- OC-3 Long Reach, 1310 nm, FC, SC, ST, D4 Connectors	$ 151.25

Fujitsu SONET
and Related Equipment
Group II: Lease

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
3.2.38		HC1A-3LX2 HC1A-3LR2 (FC Connector) HC1A-3LC2 (SC Connector) HC1A-3LT2 (ST Connector) HC1A-3LD2 (D4 Connector)	High Speed- OC-3 Very Long Reach, 1550 nm, FC, SC, ST, D4 Connectors, Non-hardened	$ 1,026.06
3.2.39		HC1A-3LX3	High Speed- OC-3 Very Long Reach, 1310 nm, FC, SC, ST, D4 Connectors, Non-hardened	No Longer Available From Manufacturer
3.2.40		HC1A-3SX1 HC1A-3SR1 (FC Connector) HC1A-3SC1 (SC Connector) HC1A-3ST1 (ST Connector) HC1A-3SD1 (D4 Connector)	High Speed- OC-3 Short Reach, 1310 nm, FC, SC, ST, D4 Connectors, Non-hardened	$ 136.34
3.2.41		HC1A-STS1	High Speed- 3 x STS-1	$ 178.69
3.2.42		HC1A-6LX1 HC1A-6LR1 (FC Connector) HC1A-6LC1 (SC Connector) HC1A-6LT1 (ST Connector) HC1A-6LD1 (D4 Connector)	High Speed- OC-12 Long Reach, 1310 nm, FC, SC, ST, D4 Connectors, Hardened	$ 756.60
Additional Part (Item 3.2.42)		STS Cable Set (Two cables per set)	Ribbon cable for 12 STS-1 pass-through on OC-12 Optic (Connects to front of unit); One set per unit	$ 3.34
3.2.43		MC1A-APU	FASTLANE Processor	$ 190.20
3.2.44		MC1A-ATM	FASTLANE STS-1/ ATM Converter	$ 131.14
3.2.45		MC1A-RPU	FASTLANE Router Processor	$ 201.47
3.2.46		LS1A-D3U	FASTLANE DS3 UNI card	$ 314.65
3.2.47		LS1A-ETH	FASTLANE EPMB card	$ 64.02

GROUP II: LEASE (12-MONTH)
(Lease rates do not include the use tax of .5%)

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 12

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
3.2.48		LS1A-RME	FASTLANE Ethernet Bridge/ Router	$ 76.03
3.2.49		LS1A-RMT	FASTLANE Token Ring Bridge/ Router	$ 45.82
3.2.50		LAN Cable Rel. 1	Ethernet LMP Interface kit (HA15B-001-D115	$ 4.33
3.2.51		DS3 UNI Cable	DS3 UNI Interface kit (HA15B-0001-D114	$ 13.13
3.3 FLM 6				
Hardwired Equipment				
3.3.1		Shelf	Modular Shelf with ears for rack mounting and Ethernet connector	$ 71.33
3.3.2		Adapter	23" Rack Adapter	$ 12.38
3.3.3		Adapter	19" Rack Adapter	$ 12.38
3.3.4	HOUS	Wall Mount Cabinet	Wall Mountable cabinet for shelf enclosure	$ 108.72
3.3.5	HARDW	Wall Mount Kit	Installation materials for wall mount enclosure	$ 12.38
3.3.6	PWCNV	Converter	AC/DC Pwr Converter	$ 31.08
3.3.7	BTMN	Battery Monitor	Battery Monitor and low voltage disconnect	$ 29.72
3.3.8	BAT	Batteries (Battery Kit)	Set of 4 batteries for wall mount housing battery backup	$ 13.25
3.3.9	BAT	Batteries (Battery Backup)	Individual Spare Battery, mountable in wall mount enclosure	$ 4.71
3.3.10	HARDW	Fuse Kit	Spare fuses for converter and battery monitor units	$ 1.24
3.3.11	HARDW	Swing Kit (Plate)	Hinged plate for zero clearance for wall mount cabinet	$ 22.04
3.3.12	MPU/ ALM	MPU & ALM2	Microprocessor- local user interface and alarms	$ 46.31
3.3.13		MPU & ALM6	Supports software downloads. MPU & ALM2 features supported.	$ 79.00
3.3.14	LC1A	LC1A-D1	Low Speed - 4xDS1	$ 34.67
3.3.15		LC1A-D1E2	Enhanced Low Speed - 4xDS1	$ 84.95
3.3.16		Streaker Card	Test Unit- DS1	$ 15.48

Table title (spanning all columns): **GROUP II: LEASE (12-MONTH)** / **(Lease rates do not include the use tax of .5%)**

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 13

GROUP II: LEASE (12-MONTH)				
(Lease rates do not include the use tax of .5%)				
Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
3.3.17	OVTG	OVTG OVTG (FC Connector) OVTG (SC Connector) OVTG (ST Connector) OVTG (D4 Connector)	6 Mb/s optical interface with VT1.5 format. Available with FC, ST, SC, D4 connectors.	$ 189.34
3.4 FLM 600				
Common Plug-in Units				
3.4.1		HA15B-0001-B070	ADM Shelf Assembly (Includes misc hardware for mounting in Fujitsu manufactured standard relay rack.)	$ 426.59
Additional Part (Item 3.4.1)		Shelf	ADM Shelf Assembly	$ 426.59
3.4.2		HA15B-0001-B126	Heat Shield/ Fiber Storage	$ 25.76
3.4.3		FC9616FAC2	Faceplate Cover for Shelf	$ 23.65
3.4.4	PW6A	PW6A	Power Supply	$ 45.11
3.4.5		HS6A-AD2	High Speed Switch/Overhead Access, required for Terminal nodes in Regen applications	$ 169.65
3.4.6		HS6A-REG	High Speed Switch/Overhead Access for Regen nodes	$ 156.40
3.4.7	MP6A	MP6A-STD	Microprocessor- Term, Hub, No TSA	No Longer Available From Manufacturer
3.4.8		MP6A-ADM	Microprocessor- Term, Hub, Ring, ADM	$ 376.32
3.4.9		MP6A-24G	Microprocessor- 2.4 Gb/s Upgrade	$ 130.76
3.4.10		MP6A-ADL	Microprocessor- Software Downloadable for Term, Hub, ADM, Ring; Provides Time Slot Assignment	$ 401.33
3.4.11		MP6A-24DL	Supports software download and MP6A-24G features	$ 130.76
3.4.12		MP6A-REG	Microprocessor- supports OC-12 regenerator	$ 214.23
3.4.13	AW6A	AW6A-BSC	Alarm and Orderwire- Alarm Only	$ 45.99
3.4.14		AW6A-ENH	Alarm and Orderwire- O/W, Housekeeping	$ 118.26
3.4.15		SV6A-TL2	Supervisory- TL1/ X.25, All TRIB interfaces, user TL1 command, FLEXR	$ 180.05
3.4.16		SV6A-24G	Supervisory- 2.4 Gb/s Upgrade	$ 43.59

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 14

			GROUP II: LEASE (12-MONTH)	
			(Lease rates do not include the use tax of .5%)	
Item No.	**Slot**	**Unit Type**	**Description**	**Monthly Lease Price ($)**
3.4.17		SV6A-TDL	Supervisory OS Software Downloadable interface for TL1/ X.25/ LCN; user menu Mode, user TL1 commands, FLEXR, Supports all tributaries	$ -
Corrects Unit Type 3.4.17		SV6A-TDL1	Supervisory OS Software Downloadable interface for TL1/ X.25/ LCN; user menu Mode, user TL1 commands, FLEXR, Supports all tributaries	$ 297.93
3.4.18		SV6A-REG	Supervisory OS interface, Regenerator	$ 214.23
3.4.19	TCA	TCA	Timing Control	No Longer Available From Manufacturer
3.4.20		TCA-ENH	Supports TCA features and synchronization status messaging	$ 51.30
Transport Plug-in Units				
3.4.21		MC6A-D3A2	Middle Speed- 3 x DS3 interface/ protected 1:1; (Provides unequipped code switching and STS-1 AIS injection)	$ 122.47
3.4.22		MC6A-ST1E	Middle Speed-3 x STS-1	No Longer Available From Manufacturer
3.4.23		MC6A-ST1P	Middle Speed Channel Unit ST1P. Provides POH, UNEQ, PDI, AIS generation and PLM	$ 109.47
3.4.24		MC6A-31Mx	Middle Speed- OC-3 Intermediate Reach, 1310 nm, Hardened, FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer
3.4.25		MC6A-31xM MC6A-31FM (FC Connector) MC6A-31CM (SC Connector) MC6A-31MT (ST Connector) MC6A-31DM (D4 Connector)	Supports PLM, PDl and MC6A-31Mx features	$ 191.13
3.4.26		MC6A-31Lx	Middle Speed- OC-3 Long Reach, 1310 nm, Hardened, FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 15

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
3.4.27		MC6A-31xL MC6A-31FL (FC Connector) MC6A-31CL (SC Connector) MC6A-31TL (ST Connector) MC6A-31DL (D4 Connector)	Supports PLM, PDI and MC6A-31Lx features (Middle-speed channel unit - OC-3 (long reach; Supports the OC-3 trib interfaces as follows: Line interface: 155.52 Mb/s optical signal' Optical power level = High, Optical wavelength: 1310 nm, Operation temperature range: -40º through +65ºC, Span length: Long reach (40 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switchuing at STS-1 or STS-3c levels; Unit common to FLM-150ADM, FLM-600ADM, and FLM-2400ADM)	$ 191.13
3.4.28		MC6A-3LX3	Middle Speed- OC-3 Long Reach, 1310 nm, FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer
3.4.29		MC6A-31Sx	Middle Speed- OC-3 Short Reach, 1310 nm, FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer
3.4.30 Replaces 3.4.29		MC6A-31xS MC6A-31FS (FC Connector) MC6A-31CS (SC Connector) MC6A-31TS (ST Connector) MC6A-31DS (D4 Connector)	Supports PLM, PDI, and MC6A-31Lx features (Optical 1 x OC-3 middle-speed interface (1310 nm) short reach; less than 8 km span length; protected 1+1; 0ºC to 50ºC; common with 2400 ADM HD Trib/ 600 ADM; FC, SC, ST, D4 connector(s); optical power level = low)	$ 197.88

Fujitsu SONET
and Related Equipment
Group II: Lease

Group II - 16

SPO Price List No. 00-18
12/1/99 to 11/30/01

<table>
<tr><td colspan="5">GROUP II: LEASE (12-MONTH)
(Lease rates do not include the use tax of .5%)</td></tr>
<tr><td>Item No.</td><td>Slot</td><td>Unit Type</td><td>Description</td><td>Monthly Lease Price ($)</td></tr>
<tr>
<td>Additional Part (Item 3.4.30)</td>
<td></td>
<td>MC6A-31xA MC6A-31FA (FC Connector) MC6A-31CA (SC Connector) MC6A-31TA ST Connector) MC6A-31DA (D4 Connector)</td>
<td>Multi-Mode Middle-speed channel unit OC-3 (short reach); supports the OC-3 Trib interface as follows: Line interface 1555.52 Mb/s optical signal, Optical power level: low, Optical wavelength 1270 to 1360 nm, Operation temperature range: -40º to +65ºC, Span length: short reach (5.1 km typical); Multiplexes and demultiplexes three STS-1 signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR and BLSR applications; Provides terminal and facility lookback functions; Monitors BER; Provides provisionable payload defect indication (PDI) signal STS-1/STS-3s paths when used for UPSR and BLSR applications; Supports SONET/SDH; Unit common to FLM150ADM, FLM-600ADM, and LM-2400ADM system that accomodate multi-mode fiber connections</td>
<td>$ 178.81</td>
</tr>
<tr><td>3.4.31</td><td>MS6A</td><td>MS6A-OPT</td><td>Middle Speed Switch- SONET Tributary</td><td>No Longer Available From Manufacturer</td></tr>
<tr><td>3.4.32</td><td></td><td>MS6A-OPT2</td><td>Supports synchronization status messaging and MS6A-OPT features</td><td>$ 83.83</td></tr>
<tr><td>3.4.33</td><td>EC6A</td><td>EC6A</td><td>EOC Processor- SONET Tributary</td><td>$ 136.21</td></tr>
<tr><td>3.4.34</td><td></td><td>EC6A-24G</td><td>EOC Processor- used for 2.4G connection</td><td>$ 175.47</td></tr>
<tr><td>3.4.35</td><td></td><td>EC6A-DL1</td><td>DCC Processor for OC-3/ STS-1 TRIB, software downloadable, supports SDCC on all SONET TRIBs</td><td>$ 315.77</td></tr>
<tr><td>3.4.36</td><td>HC6A</td><td>HC6A-6LX1 HC6A-6LR1 (FC Connector) HC6A-6LC1 (SC Connector) HC6A-6LT1 (ST Connector) HC6A-6LD1 (D4 Connector)</td><td>High Speed- OC-12 Long Reach, 1310 nm, FC, SC, ST, D4 Connectors, Non-hardened</td><td>$ 547.51</td></tr>
</table>

Fujitsu SONET
and Related Equipment
Group II: Lease

| | | | GROUP II: LEASE (12-MONTH) | |
| | | | (Lease rates do not include the use tax of .5%) | |
Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
3.4.37		HC6A-6LX2 HC6A-6LR2 (FC Connector) HC6A-6LC2 (SC Connector) HC6A-6LT2 (ST Connector) HC6A-6LD2 (D4 Connector)	High Speed- OC-12 Long Reach, 1550 nm, FC, SC, ST, D4 Connectors, Non-hardened	$ 1,141.59
3.4.38		HC6A-6LX3 HC6A-6LR3 (FC Connector) HC6A-6LC3 (SC Connector) HC6A-6LT3 (ST Connector) HC6A-6LD3 (D4 Connector)	High Speed- OC-12 Long Reach, 1310 nm, FC, SC, ST, D4 Connectors, Extended Temperature	$ 873.62
3.4.39		HC6A-6EL1	High Speed- 2.4Gb/s Upgrade; Ring, Term LNR ADM (cannot drop OC-12 TRIBs from shelf)	$ 476.62
3.4.40		HC6A-6EL2	High Speed- 2.4 Gb/s Upgrade; Ring, Term LNR ADM (can drop OC-12 TRIBs from shelf)	$ 217.94
3.4.41		HC6A-RLX1 HC6A-RLR1 (FC Connector) HC6A-RLC1 (SC Connector) HC6A-RLT1 (ST Connector) HC6A-RLD1 (D4 Connector)	High Speed- OC-12 Long Reach, 1310 nm, Regenerator application only, FC, SC, ST, D4 Connectors	$ 652.71

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 18

			GROUP II: LEASE (12-MONTH)		
			(Lease rates do not include the use tax of .5%)		
Item No.	**Slot**	**Unit Type**	**Description**	**Monthly Lease Price ($)**	
3.4.42		HC6A-RLX3 HC6A-RLR3 (FC Connector) HC6A-RLC3 (SC Connector) HC6A-RLT3 (ST Connector) HC6A-RLD3 (D4 Connector)	High Speed- OC-12 Long Reach, 1310 nm, Regenerator Application only, Hardened, FC, SC, ST, D4 Connectors	$	666.58
3.5 FLM 2400					
Hardwired Equipment					
3.5.1		HSE Shelf	High Speed Shelf with integral fiber storage tray	$	451.11
3.5.2		HD TRIB	Shelf High Density Tributary Shelf (Two max per FLM-2400ADM)	$	291.00
Additional Part (Item 3.5.2)		Shelf	ADM Shelf Assembly (Four max per FLM-2400ADM)	$	426.59
3.5.3		Fan Shelf	Fan Shelf (HS Shelf)	$	36.78
3.5.4		Fan Unit	Fan Unit (HS Shelf)	$	33.31
3.5.5		Air Filter	Air Filter	$	12.01
3.5.6		Panel	Fiber Storage Tray (HS Shelf)	$	25.76
3.5.7		Panel	Heat Shield for Regen application	$	13.62
3.5.8		Cable (CAB1)	Signal cables between HS and TRIB shelves (Used with HC6A-6EL1s in 600 tributary shelf applications and for OC-3 HD tributary shelf applications; Only CAB4 cables may be used with HC6A-6EL2s and other HD tributary applictions.)	$	12.75
3.5.9		Cable (CAB2)	Signal cables between HS and TRIB shelves (CAB2 cables are used only when an FLM-600ADM ring migrates to FLM-2400ADM ring.)	$	36.90
3.5.10		Cable (CAB3)	Signal cables between HS shelf and HCA6-6EL2 units in FLM 600 ADM TRIB shelf	$	-
Corrects Description 3.5.10		Cable (CAB3)	Interconnects 600 Tributary interface cards: HC6A-6EL2 to HC6A-6EL2. Used front-of-card to front-of-card; UPSR applications.	$	11.76

Fujitsu SONET
and Related Equipment
Group II: Lease

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
Additional Part (Item 3.5.10)		Cable (CAB4)	Signal cables between HS shelf and HCA6-6EL2 units in FLM 600 ADM TRIB shelf; used to inter-connect HS shelf with HD Tributary shelves	$ 11.76
Additional Part (Item 3.5.10)		Tributary Interface Cable	Intershelf cable; 5'	$ 5.82
Additional Part (Item 3.5.10)		Tributary Interface Cable	Intershelf cable; 7"	$ 5.82
3.5.11		MC6A3BRD Cable	Bridge cable between bridge unit and HC2T-MDL	$ 11.76
HS Shelf common Plug-in Units				
3.5.12	PW2H	PW2H-HS	Power Supply for HS common units; HS optical units are self-powered	$ 39.13
3.5.13	HS2H	HS2H-LTE1	High Speed Switch - I + I Terminal	$ 67.86
3.5.14		HS2H-ADM1	High Speed Switch - I + I ADM	$ 121.23
3.5.15		HS2H-RNG2	High Speed Switch - I + I Ring (TSA x 48 STS-1)	$ 106.74
3.5.16		HS2H-REG	High Speed Switch- All regenerator applications	$ 70.95
3.5.17		HS2H-A1DL	High Speed Switch control for I + I linear ADM, DCC, APS, SW & SWDL	$ 141.17
Additional Part (Item 3.5.17)		HS2H-A2DL	High Speed Switch control for I + I linear ADM, SDCC & OW, APS, SW & SWDL; Supports Synchronization Status Messaging for release 10S/10BS and later	$ 166.68
Additional Part (Item 3.5.17)		HS2H-U1	High Speed Switch control for TERM, w/o TSA, TERM w/TSA, UPSR, and REGEN configurations; SDCC; OC-48 Protection switching; Provides section and line overhead byte (OHB) processiung; Accesses the SONET APS byte for high-speed switching; Accesses the SDCC and OW bytes; Supports Synchronization Status Messaging for release 10S/10BS and later	$ 117.51
3.5.18		HS2H-B1	High Speed Controller- BLSR	No Longer Available From Manufacturer
Replaces 3.5.18		HS2H-B1DL	High Speed Controller- BLSR; swdl; Indicates ring switch status; Accesses the SONET APS bytes for high-speed switching; Accesses the SDCC and OW bytes	$ 106.74
3.5.19		MP2H-T12	Microprocessor- I + 1, TL1: AII applications with TSA x 48 STS-1 and single TID	$ 96.09

Table title (above): **GROUP II: LEASE (12-MONTH)** / **(Lease rates do not include the use tax of .5%)**

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 20

			GROUP II: LEASE (12-MONTH)		
			(Lease rates do not include the use tax of .5%)		
Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)	
3.5.20		MP2H-SLV	Slave Microprocessor- I + I and ADM applications; use in one HS shelf of ADM configuration; other HS shelf has standard MP2H card; use for TSA x 48 STS-1 and single TID	$	119.74
3.5.21		MP2H-DL	Microprocessor for all TL1/X.25 with SWDL	$	266.11
Additional Part (Item 3.5.21)		MP2H-DLB	supports SWDL when OSS interface is TL1/OSI; Overall HS shelf control; Collects alarm, status, and provisioning; Provides nonvolitile memory backup of provisioning; collects alarm/status/performance monitoring information from tributary shelf microprocessor; Supports tributary SDCC; Supports HM2H-A1 unit with TSA; Supports HM2H-A2 unit without TSA; Supports HM2H-A3 unit for regenerator applications; Supports HM2H-B1 unit for BLSR; supports HM2H-C1 unit; Supports a single TID with FLM600ADM trib shelves; Use with SV2H-DL/ -DLB, MP2T-DL, and MP6A-24DL; Supports synchronization Status Messaging for release 10S/10BS and later	$	266.11
3.5.22		MP2H-DLS	Microprocessor for all TL1/X.25(1+1) Term, Reg. ADM, and Ring with SWDL. In linear configuration use in SLAVE shelf.	$	266.11
3.5.23		MP2H-B1	Microprocessor for BLSR	$	109.22
3.5.24	AW2H	AW2H-A1	Alarm and Orderwire- Alarm Only	$	70.95
3.5.25		AW2H-A2	Alarm and Orderwire- Alarm Orderwire	$	96.71
3.5.26		SV2H-T12	Supervisory- 1 + 1, TL1/X.25; All applications with TSA x 48 STS-1 and single TID	$	183.14
3.5.27		SV2H-DL	Supervisory OS interface for TL1/X.25 & LCN 1+1 applications. Supports TSA x 48 and single TID W/ SWDL	$	259.18
Additional Part (Item 3.5.27)		SV2H-DLB	supports terminal, linear, REGEN, UPSR, and BLSR; SWDL; Used with MP2H-DL/-DLB with TSA, HM2H-A2, HM2H-A3, HM2H-B1, and HM2H-C1 units; Provides user with access for TL1 commands and FLEXR; Provides nonvolitile memory backup of administration data stored on MP2H unit; Supports Synchronization Status Messaging for release 10S/10BS and later	$	259.18
3.5.28		SV2H-B1	Supervisory OS interface for BLSR	$	208.16
Tributary Shelf Common Plug-in Units					

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 21

			GROUP II: LEASE (12-MONTH)	
			(Lease rates do not include the use tax of .5%)	
Item No.	**Slot**	**Unit Type**	**Description**	**Monthly Lease Price ($)**
3.5.29	PW1A	PW1A	Power Supply	Duplicate Item, Please See Item 3.5.71
3.5.30		PW1A-TRIB	Power Unit, supports HD TRIB optics as well as HD TRIBs with DS3 and STS1 interfaces	$ 30.34
3.5.31	HS2T	HS2T-D3	Group Processor- DS3	$ 87.55
3.5.32		HS2T-S1	Group Processor- STS-1	$ 79.62
3.5.33		HS2T-C3	Group Processor- OC-3	$ 216.33
3.5.34		HS2T-SDL	Group Processor, Required for STS-1 interfaces W/ SDCC & SWDL	Duplicate Item, Please See Item 3.5.76
3.5.35		HS2T-C3DL	Group Processor, Required for OC-3/c, OC-12/c interfaces W/ SDCC & SWDL. Use W/A 1/2/4	$ 365.05
3.5.36		MP2T-T12	TRIB Shelf Microprocessor- all applications with TSA x 48 STS-1 and single TID	Duplicate Item, Please See Item 3.5.78
3.5.37		MP2T-DL	TRIB Shelf Processor (MPU) SWDL	$ 114.17
3.5.38	HT2H	HT2H-LR1X HT2H-LR1B (FC Connector) HT2H-LR1S (ST Connector)	High Speed Transmitter- OC-48, 1310 nm, Basic, FC, ST Connector	$ 609.74
3.5.39		HT2H-LR1H (FC Connector)	High Speed Transmitter- OC-48, 1310 nm, high, I0E-13BER	$ 856.53
3.5.40		HT2H-LR2X HT2H-LR2B (FC Connector) HT2H-LR2S (ST Connector)	High Speed Transmitter- OC-48, 1550 nm, Basic	$ 1,003.02
3.5.41		HT2H-LR2H (FC Connector)	High Speed Transmitter- OC-48, 1550 nm, High	$ 1,438.29
3.5.42		HT2H-NB21	High Speed Transmitter- OC-48, 1550 nm, narrowband	No Longer Available From Manufacturer
3.5.43		HT2H-L1BX HT2H-L1BC (SC Connector) HT2H-L1BD (D4 Connector)	High Speed Transmitter- OC-48, 1310 nm, SD or D4 Connector	$ 651.59

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 22

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
			GROUP II: LEASE (12-MONTH)	
			(Lease rates do not include the use tax of .5%)	
3.5.44		HT2H-L2BC HT2H-L2BC (SC Connector) HT2H-L2BD D4 Connector)	High Speed Transmitter- OC-48, 1550 nm, SC or D4 Connector	$ 1,071.75
3.5.45		HT2H-NBF1	High Speed Transmitter- OC-48, 1558 nm for WDM, EDFA	No Longer Available From Manufacturer
3.5.46		HT2H-NBF2	High Speed Transmitter- OC-48, 1536 nm for WDM, EDFA	No Longer Available From Manufacturer
3.5.47	HR2H	HR2H-LR1X HR2H-LR1B (FC Connector) HR2H-LR1S (ST Connector)	High Speed Receiver-OC-48, 1310 nm Basic, FC and ST Connectors	$ 884.39
3.5.48		HR2H-LR1H	High Speed Receiver- OC-48, 1310 nm, High	$ 1,194.96
3.5.49		HR2H-LR2X HR2H-LR2B (FC Connector) HR2H-LR2S (ST Connector)	High Speed Receiver- OC48, 1550 nm, Basic, FC and ST Connectors	$ 1,482.74
3.5.50		HR2H-LR2H (FC Connector)	High Speed Receiver- OC-48,1550 nm, High	$ 2,151.17
3.5.51		HR2H-L1BX HR2H-L1BD (D4 Connector) HR2H-L1BC SC Connector)	High Speed Receiver- OC-48, 1310 nm, SC or D4 Connector	$ 945.44
3.5.52		HR2H-L2BX HR2H-L2BC (SC Connector) HR2H-L2BD (D4 Connector)	High Speed Receiver- OC-48, 1550 nm, SC or D4 Connector	$ 1,585.02
3.5.53	HM2H	HM2H-A1	Muldem- TSA, all applications except Regen	$ 549.81
3.5.54		HM2H-A2	Muldem-1+1, l:N Working, no TSA	$ 387.09
3.5.55		HM2H-A3	Muldem- Section Terminating Regen, no TSA	$ 58.70
3.5.56		HM2H-B1	Muldem, timing control for BLSR	$ 549.81

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 23

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
			GROUP II: LEASE (12-MONTH)	
			(Lease rates do not include the use tax of .5%)	
Additional Part (Item 3.5.56)		HM2H-C1	Supports TSA terminal, linear, UPSR, and BLSR configurations; Used in SWDL networks; Multiplexes/demultiplexes compsite signals between tributary shelves/optical transmitter/receiver; Provides local clock for the FLM2400ADM system from external DS1 BITS, optical line timing, or internal Stratum 3 clock; Provides both automatic and manual switching function for the external timing reference; Provides holdover function; Provides reference clock switching funtion by synchronization message; Supports Synchronization Status Messaging for release 10S/10BS UPSR, and BLSR applications	$ 604.79
Tributary Shelf Transport Plug-in Units (High Density Trib)				
3.5.57	HC2T	HC2T-MDL	High Speed, Terminal and Ring, DS3, STS-1, & OC-3	$ 70.09
3.5.58		HC2T-C12L	High Speed and Ring, OC-12	$ 127.54
3.5.59	MC6A	MC6A-D3E	Middle Speed - 3 x DS3	No Longer Available From Manufacturer
3.5.60		MC6A-D3E2	Electrical 3 x DS3 interface (Enhanced), protected 1:4 in quad. Switch on unequipped code.	$ 82.97
3.5.61		MC6A-ST1E	Middle Speed - 3 x STS-1	No Longer Available From Manufacturer
Replaces 3.5.61		MC6A-ST1P	Middle-speed channel unit ST1P; LOS, LOF monitoring; provides EC-1 electrical Trib interfaces for three STS-1 signals; Path overhead (POH) monitoring in ring configurations; control line and path switching based on BER detection; Provides provisionable STS-1 unequipped code (UNEQ) code path protection switching; Provides provisionable payload defect indication (PDI) when used for UPSR and BLSR applications; AIS generation and line and path AIS detection circuitry; Line build out (LBO) selections; Terminal and fecility loopback functions; Supports payload label mismatch (PLM) code when used for UPSR and BLSR applications	$ 109.47
3.5.62		MC6A-3BRD	Middle Speed Bridge for OC-3	$ 85.44
3.5.63		MC6A-31Mx	Middle Speed- OC-3 Intermediate Reach 1310 nm, Hardened, FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer

Fujitsu SONET
and Related Equipment
Group II: Lease

Group II - 24

SPO Price List No. 00-18
12/1/99 to 11/30/01

GROUP II: LEASE (12-MONTH)				
(Lease rates do not include the use tax of .5%)				
Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
Replaces 3.5.63		MC6A-31xx MC6A-31FM (FC Connector) MC6A-31CM (SC Connector) MC6A-31MT (ST Connector) MC6A-31DM (D4 Connector)	Middle-speed channel Unit - OC-3 (Intermediate Reach); Supports the OC-3 tributary interface as follows: Line interface 155.52 Mb/s optical signal; Optical power level = middle; Optical wave length = 1310 nm; Operation temperatur range: -40º to +65ºC; span length = intermediate reach (15 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; drops/inserts Section and Line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR applications only); Provides terminal and facility loopback functions; Monitors the bit error rate (BER); Provides provisionable Payload Defect Indication (PDI) signal STS-1/STS-3c paths used for UPSR applications when mounted in FLM600ADM and FLM600TRIB shelves; Supports Payload label Mismatch (PLM signal STS-1/STS-3c path code used for UPSR applications when mounted in FLM600ADM and FLM600TRIB shelves; Unit common to FLM150ADM, FLM600ADM, and FLM2400ADM	$ 191.13
3.5.64		MC6A-31LX	Middle Speed- OC-3 Long Reach, 1310 nm, Non-Hardened, FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer
Replaces 3.5.64		MC6A-31xL MC6A-31FL (FC Connector) MC6A-31CL (SC Connector) MC6A-31TL (ST Connector) MC6A-31DL (D4 Connector)	Middle-speed channel unit - OC-3 (long reach; Supports the OC-3 trib interfaces as follows: Line interface: 155.52 Mb/s optical signal' Optical power level = High, Optical wavelength: 1310 nm, Operation temperature range: -40º through +65ºC, Span length: Long reach (40 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switchuing at STS-1 or STS-3c levels; Unit common to FLM-150ADM, FLM-600ADM, and FLM-2400ADM	$ 191.13
3.5.65		MC6A-31Sx	Optical 1 x OC-3 HD shelf interface (1310 nm) Short Reach/ Protected 1 + 1; FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 25

<table>
<tr><td colspan="5" align="center">GROUP II: LEASE (12-MONTH)
(Lease rates do not include the use tax of .5%)</td></tr>
<tr><td>Item No.</td><td>Slot</td><td>Unit Type</td><td>Description</td><td>Monthly Lease Price ($)</td></tr>
<tr>
<td>Replaces 3.5.65</td>
<td></td>
<td>MC6A-31xS
MC6A-31FS
(FC Connector)
MC6A-31CS
(SC Connector)
MC6A-31TS
(ST Connector)
MC6A-31DS
(D4 Connector)</td>
<td>Supports PLM, PDI, and MC6A-31Lx features
(Optical 1 x OC-3 middle-speed interface (1310 nm) short reach; less than 8 km span length; protected 1+1; 0ºC to 50ºC; common with 2400 ADM HD Trib/ 600 ADM; FC, SC, ST, D4 connector(s); optical power level = low)</td>
<td>$ 197.88</td>
</tr>
<tr>
<td>3.5.66</td>
<td></td>
<td>MC6A-2LX1
MC6A-2LR1
(FC Connector)
MC6A-2LC1
(SC Connector)
MC6A-2LT1
ST Connector)
MC6A-2LD1
(D4 Connector)</td>
<td>OC-12/c 1310 nm HD Shelf, FC, SC, ST, D4 Connectors</td>
<td>$ 593.02</td>
</tr>
<tr>
<td>Additional Part (Item 3.5.66)</td>
<td></td>
<td>a1
MC6A-31FA
(FC Connector)
MC6A-31CA
(SC Connector)
MC6A-31TA
ST Connector)
MC6A-31DA
(D4 Connector)</td>
<td>Multi-Mode Middle-speed channel unit OC-3 (short reach); supports the OC-3 Trib interface as follows: Line interface 1555.52 Mb/s optical signal, Optical power level: low, Optical wavelength 1270 to 1360 nm, Operation temperature range: -40º to +65ºC, Span length: short reach (5.1 km typical); Multiplexes and demultiplexes three STS-1 signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR and BLSR applications; Provides terminal and facility lookback functions; Monitors BER; Provides provisionable payload defect indication (PDI) signal STS-1/STS-3s paths when used for UPSR and BLSR applications; Supports SONET/SDH; Unit common to FLM150ADM, FLM-600ADM, and LM-2400ADM system that accomodate multi-mode fiber connections</td>
<td>$ 197.88</td>
</tr>
</table>

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01
Group II - 26

<table>
<tr><td colspan="5">GROUP II: LEASE (12-MONTH)
(Lease rates do not include the use tax of .5%)</td></tr>
<tr><td>Item No.</td><td>Slot</td><td>Unit Type</td><td>Description</td><td>Monthly Lease Price ($)</td></tr>
<tr><td>3.5.67</td><td></td><td>MC6A-2LX2
MC6A-2LR2
(FC Connector)
MC6A-2LC2
(SC Connector)
MC6A-2LT2
ST Connector)
MC6A-2LD2
(D4 Connector)</td><td>OC- 12/c 1550 nm HD Shelf, FC, SC, ST, D4 Connectors</td><td>$ 1,448.81</td></tr>
<tr><td>3.5.68</td><td></td><td>MC6A-2THR</td><td>Passes Clock signal in OC-12 HD TRIB applications</td><td>$ 43.59</td></tr>
<tr><td>3.5.69</td><td>MS2T</td><td>MS2T-D31</td><td>Middle Speed Switch - DS3 and EC-1 interface units</td><td>$ 49.53</td></tr>
<tr><td>3.5.70</td><td></td><td>MS2T-S1</td><td>Middle Speed Switch - STS-1</td><td>Not An Available Product</td></tr>
<tr><td colspan="5">Tributary Shelf Common Plug-in Units</td></tr>
<tr><td>3.5.71</td><td>PW1A</td><td>PW1A</td><td>Power Supply
(Typically used in the FLM-150ADM; does not support OC-3/OC-12 in HD TRIB; Cannot be mixed with PW1A-TRIB unit)</td><td>$ 35.66</td></tr>
<tr><td>3.5.72</td><td></td><td>PW1A-TRIB</td><td>Power Unit, supports HD TRIB optics as well as HD TRIBs with DS3 and STS-1 interfaces</td><td>Duplicate Item, Please See Item 3.5.30</td></tr>
<tr><td>3.5.73</td><td>HS2T</td><td>HS2T-D3</td><td>Group Processor- DS3</td><td>Duplicate Item, Please See Item 3.5.31</td></tr>
<tr><td>3.5.74</td><td></td><td>HS2T-S1</td><td>Group Processor- STS-1</td><td>Duplicate Item, Please See Item 3.5.32</td></tr>
<tr><td>3.5.75</td><td></td><td>HS2T-C3</td><td>Group Processor- OC-3</td><td>Duplicate Item, Please See Item 3.5.33</td></tr>
<tr><td>3.5.76</td><td></td><td>HS2T-SDL</td><td>Group Processor, Required for STS-1 interfaces W/ SDCC & SWDL</td><td>No Longer Available From Manufacturer</td></tr>
<tr><td>Replaces 3.5.76</td><td></td><td>HS2T-SDL2</td><td>SWDL High-speed STS-1 switch-- Used when tributary signal type is EC-1; Controls switching of HC2T units; Accesses SONET overhead bytes; Provides SDCC extensions on EC-1 interfaces; Controls switching of HC2T units; Supports synchronization Status Messaging for release 10S/10BS and later</td><td>$ 261.16</td></tr>
<tr><td>3.5.77</td><td></td><td>HS2T-C3DL</td><td>Group processor, Required for OC-3/c, OC-12/c interfaces W/ SDCC & SWDL, Use W/A1/2/4</td><td>Duplicate Item, Please See Item 3.5.35</td></tr>
<tr><td>3.5.78</td><td></td><td>MP2T-T12</td><td>TRIB Shelf Microprocessor- all applications with TSA x 48 STS-1 and single TID</td><td>$ 365.05</td></tr>
</table>

Fujitsu SONET
and Related Equipment
Group II: Lease

			GROUP II: LEASE (12-MONTH) (Lease rates do not include the use tax of .5%)	

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
3.5.79		MP2T-DL	TRIB Shelf Processor (MPU) SWDL	Duplicate Item, Please See Item 3.5.37
3.5.80	HT2H	HT2T-LT1X	High Speed Transmitter-OC-48, 1310 nm, Basic, FC Connector	Duplicate Item, Please See Item 3.5.38
3.5.81		HT2TH-LR1H	High Speed Transmitter-OC-48, 1310 nm, High 10E-13 BER	Duplicate Item, Please See Item 3.5.39
3.5.82		HT2H-LR2X	High Speed Transmitter-OC-48, 1550 nm, Basic	Duplicate Item, Please See Item 3.5.40
3.5.83		HT2H-LR2H	High Speed Transmitter-OC-48, 1550 nm, High	Duplicate Item, Please See Item 3.5.41
3.5.84		HT2H-NB21	High Speed Transmitter-OC-48, 1550 nm, narrowband	Duplicate Item, Please See Item 3.5.42
3.5.85		HT2H-L1BX	High Speed Transmitter-OC-48, 1310 nm, SC or D4 Connector	Duplicate Item, Please See Item 3.5.43
3.5.86		HT2H-L2BC	High Speed Transmitter-OC48, 1550 nm, SC or D4 Connector	Duplicate Item, Please See Item 3.5.44
3.5.87		HT2H-NBF1	High Speed Transmitter-OC-48, 1558 nm, for WDM, EDFA	Duplicate Item, Please See Item 3.5.45
3.5.88		HT2H-NBF2	High Speed Transmitter-OC-48, 1536 nm, for WDM, EDFA	Duplicate Item, Please See Item 3.5.46
3.5.95	HM2H	HM2H-A1	Muldem-TSA, all applications except Regen	Duplicate Item, Please See Item 3.5.53
3.5.96		HM2H-A2	Muldem-1+1, 1:N Working, no TSA	Duplicate Item, Please See Item 3.5.54
3.5.97		HM2H-A3	Muldem, Section Terminating Regen, no TSA	Duplicate Item, Please See Item 3.5.55
3.5.98		HM2H-B1	Muldem, timing control for BLSR	Duplicate Item, Please See Item 3.5.56
Tributary Shelf Transport Plug-in Units				
3.5.99	HC2T	HC2T-MDL	High Speed-Terminal and Ring, DS3, STS-1, & OC-3	Duplicate Item, Please See Item 3.5.57
3.5.100		HC2T-C12L	High Speed-Terminal and Ring, OC-12	Duplicate Item, Please See Item 3.5.58
3.5.101	MC6A	MC6A-D3E	Middle Speed-3xDS3	Duplicate Item, Please See Item 3.5.59
3.5.102		MC6A-D3E2	Electrical 3 x DS3 interface (Enhanced), protected 1:4 in quad. Switch on unequipped code.	Duplicate Item, Please See Item 3.5.60

Fujitsu SONET
and Related Equipment
Group II: Lease

Group II - 28

SPO Price List No. 00-18
12/1/99 to 11/30/01

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
3.5.103		MC6A-ST1E	Middle Speed-3xSTS-1	Duplicate Item, Please See Item 3.5.61
3.5.104		MC6A-3BRD	Middle Speed Bridge for OC-3	Duplicate Item, Please See Item 3.5.62
3.5.105		MC6A-31MX	Middle Speed-OC-3 Intermediate Reach, 1310 nm, Hardened, FC, SC, ST, D4 Connectors	Duplicate Item, Please See Item 3.5.63
3.5.106		MC6A-31LX	Middle Speed-OC-3 Long Reach, 1310 nm, Non-Hardened, FC, SC, ST, D4 Connectors	Duplicate Item, Please See Item 3.5.64
3.5.107		MC6A-31SX	Optical 1 x OC-3 HD shelf interface (1310 nrn) Short reach/ protected 1+1, FC, SC, ST, D4 Connectors	Duplicate Item, Please See Item 3.5.65
3.5.108		MC6A-2LX1	OC- 12/c 13 10 nm HD Shelf, FC, SC, ST, D4 Connectors	Duplicate Item, Please See Item 3.5.66
3.5.109		MC6A-2LX2	OC-12/c 1550 nm HD Shelf, FC, SC, ST, D4 Connectors	Duplicate Item, Please See Item 3.5.67
3.5.110		MC6A-2THR	Passes Clock signal in OC-as HD TRIB applications	Duplicate Item, Please See Item 3.5.68
3.5.111	MS2T-D31	MS2T-D31	Middle Speed Switch-DS3	Duplicate Item, Please See Item 3.5.69
3.5.112		MS2T-S1	Middle Speed Switch-STS-1	Duplicate Item, Please See Item 3.5.70
3.6 FLM OPX				
EDFA, WDM and Alarm Unit Lists				
3.6.1	ALM	Shelf-OPX	shelf	Not An Available Product
3.6.2	OP	ALM-OPX	Alarm Unit	Not An Available Product
3.6.3		OP-PF21	EDFA Unit (Laser type = 1558 ±5nm (_1), FC connector)	Not An Available Product
3.6.4		OP-PF22	EDFA Unit (Laser type = 1536 ±5nm (_2), FC connector)	Not An Available Product
3.6.5		OP-WF1	WDM Unit (Tx side Laser type - _1, Rx side laser type= _2, FC connector)	Not An Available Product
3.6.6		OP-WF2	WDM Unit (Tx side Laser type= _1, FC connector)	Not An Available Product
3.7 FLM 50/150				
Common Plug-in Units				
3.7.4	PWR	PWR	Power Supply	No Longer Available From Manufacturer

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 29

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
3.7.5	AOW	AOW-ALM	Alarm Only	No Longer Available From Manufacturer
3.7.6		AOW-INTI	Alarm, Orderwire-Interoffice	No Longer Available From Manufacturer
3.7.7		AOW-INT2	Alarm, Orderwire-Housekeeping-Interoffice	No Longer Available From Manufacturer
3.7.8		AOW-LOP2	Alarm, Orderwire-Housekeeping-Loop	No Longer Available From Manufacturer
3.7.9	OHA	OHA-STD	Overhead Access w/VF	No Longer Available From Manufacturer
3.7.10		OHA-VF	Overhead Access w/VF	No Longer Available From Manufacturer
3.7.11		OHA-SD2	Overhead Access-TL1/X.25	No Longer Available From Manufacturer
3.7.12		OHA-VF2	Overhead Access w/VF-TL1/X.25	No Longer Available From Manufacturer
3.7.13	OIU	O1U-PL3	OS Interface- Parallel, w/TBOSS & w /8-bit modem int.	No Longer Available From Manufacturer
3.7.14		OIU-TB4	OS Interface-TBOS, w/8-bit modem int.	No Longer Available From Manufacturer
3.7.15		OIU-F5	OS Interface-FSI	No Longer Available From Manufacturer
3.7.16		OIU-PL	OS Interface-Parallel, w/TBOS	No Longer Available From Manufacturer
3.7.17	MPU	MPU-LOC	MPU-Local Access	No Longer Available From Manufacturer
3.7.18		WU-SYS	MPU-System Access	No Longer Available From Manufacturer
3.7.19		MPU-PH2	MPU-TL1/X.25	No Longer Available From Manufacturer
Transport Plug-in Units				
3.7.20	LSCH	LSCH-D1	DS1 Low Speed- VT1.5 Mapping	No Longer Available From Manufacturer
3.7.21		LSCH-D3	DS3 Low Speed-DS3 Mapping	No Longer Available From Manufacturer
3.7.22		LSCH-M12	DS1 Low Speed-DS3 Mapping	No Longer Available From Manufacturer

GROUP II: LEASE (12-MONTH)
(Lease rates do not include the use tax of .5%)

Fujitsu SONET
and Related Equipment
Group II: Lease

Group II - 30

SPO Price List No. 00-18
12/1/99 to 11/30/01

Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
			GROUP II: LEASE (12-MONTH)	
			(Lease rates do not include the use tax of .5%)	
3.7.23		Test Unit	Streaker Card-Test Only	No Longer Available From Manufacturer
3.7.24	LSSW	LSSW	Low Speed Switch	No Longer Available From Manufacturer
3.7.25	HSCH	HSCH-LW31	OC-3 High Speed-D1/D3 Units(RI)	No Longer Available From Manufacturer
3.7.26		HSCH-LW33	OC-3 High Speed-D1/D3 Units (LR)	No Longer Available From Manufacturer
3.7.27		HSCH-ML11	OC-1 High Speed-D1/D3 M12 Units (RI)	No Longer Available From Manufacturer
3.7.28		HSCH-ML31	OC-3 High Speed-D1/D3/M12 Units (RI)	No Longer Available From Manufacturer
3.7.29		HSCH-ML33	OC-3 High Speed-D1/D3/M12 Units (LR)	No Longer Available From Manufacturer
3.7.30		HSCH-ML34	OC-3 High Speed-D1/D3/M12 Units(LR) w/Clock Output	No Longer Available From Manufacturer
3.7.31		HSCH-ML36	OC-3 High Speed-D1/D3/M12 Units (1550 nm)	No Longer Available From Manufacturer
3.7.32		HSCH-ML37	OC-3 High Speed-D1/D3/MW12 Units (1550 nm)	No Longer Available From Manufacturer
3.7.33		MSCH-M23	DS3 High Speed	No Longer Available From Manufacturer
3.8 NETWORK MANAGEMENT SYSTEM				
3.8.1		FLEXR	Flexible User Interface software package to provision, maintain and monitor FLMs and FACTRs	$ 30.59
3.8.2		FLEXR Plus	Network Management software application and element manager for SONET product line. (Basic expansion from an existing 50 NE system to a 100 NE system)	$ 5,340.29
3.9 ANCILLIARY EQUIPMENT				
3.9.1		HA15B-0001-A046	Terminal Bay Configuration: 7' blue Hendry rack, fuse & alarm panel, power and alarm wiring	$ 288.15
3.9.2			7' Blue Hendry Rack	$ 33.28
3.9.3		ISC-77	Instant Service Cabinet	$ 391.18
3.9.4		ISC-77AE	Instant Service Cabinet Configuration. Includes Ancilliary Equipment	$ 789.42
3.9.5		HA15B-0001-B030	Fuse and Alarm Panel (FC9604FA21)	$ 66.37

Fujitsu SONET
and Related Equipment
Group II: Lease

Group II - 31

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP II: LEASE (12-MONTH)	
			(Lease rates do not include the use tax of .5%)	
Item No.	Slot	Unit Type	Description	Monthly Lease Price ($)
3.9.6		HA15B-0001-B024	Fuse and Alarm Panel	$ 67.49
3.10 BACKUP POWER SYSTEM				
3.10.1		HA15B-0001-B023	MPS Shelf	$ 55.10
3.10.2		HA15B-0001-B043	Battery Shelves	$ 31.21
3.10.3		FC9604MNC2	Monitor Control Shelves	$ 35.04
3.10.4		FC9604SWA2	Switch Alarm Card	$ 32.69
3.10.5		FC9604REC2	Rectifier Unit	$ 72.32
3.10.6		FC9602PWC2	Power Control Unit	Not An Available Product
Corrects Unit Type 3.10.6		FC9604PWC2	Power Control Unit	$ 21.42
3.10.7			12V Lead Acid Battery Packs	$ 16.72
3.11 CABLES				
3.11.1	ALM	21-339-002	Office alarm relay closures	No Longer Available From Manufacturer
3.11.2		21-452-006	Same as above	$ 4.23
3.11.3	OHA	21-538-xxx (21-538-050)	Access for unused SONET overhead	$ 2.04
3.11.4	EXT CLK	21-615-xxx (21-615-075)	External clock-secondary	$ 6.60
3.11.5		21-614-xxx (21-614-050)	External clock-primary	$ 3.67
3.11.6	H.K.2	21-537-xxx (21-537-050)	Housekeeping outputs	$ 5.25
3.11.7	H.K.1	21-626-xxx (21-626-050)	Housekeeping inputs	$ 3.54
3.11.8	OW/E2A1	22-605-xxx (21-605-050)	Orderwire, & TBOS INTF (bridging)	$ 3.41
3.11.9	OW/E2A	21-185-xxx (21-185-025)	Orderwire/132A alarm cable (bridging)	$ 3.75
3.11.10	OSS1	21-532-xxx (21-532-050)	X.25/TL1 or X.25/CMISE OSS link	$ 5.91
3.11.11		21-153-xxx (21-153-050)	X.25 OSS link cable (AI switch)	$ 7.08

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
Group II - 32
12/1/99 to 11/30/01

			GROUP II: LEASE (12-MONTH) (Lease rates do not include the use tax of .5%)		
Item No.	**Slot**	**Unit Type**	**Description**	**Monthly Lease Price ($)**	
3.11.12		21-534-xxx (21-534-050)	X.25/OSS back-to-back link	$	7.39
3.11.13	DS1 GPs3,4,5	21-822-xxx (21-822-050)	DS1 signal input and output groups	$	10.08
3.11.14	STS-1 GP1,GP2 DS3	20-020-001	STS-1 signal input and output - (3 Coax/Sheath Bulk 735A)	$	0.29
3.11.15		21-312-001	Single Coax (1' BNC-BNC)	$	1.24
3.11.16	PWR	22-515-xxx (21-515-050)	48V battery supply (Main A, B), battery return (GA, GB), frame ground (FG). With connector labels	$	6.15
3.11.17		22-516-xxx	48V battery supply (Main A, B), battery return (GA, GB), frame ground (FG). No labels.	Not An Available Product	
3.11.18		21-337-xxx (21-337-050)	Office alarm relay closure bus cable	Not An Available Product	
3.11.19		21-339-xxx (21-339-025)	Office alarm relay closure cable	$	4.48
3.11.20		21-452-xxx (21-452-050)	Office alarm relay closure cable	$	2.37
600 Tributary Shelf Transport Plug-in Units					
Additional Part		HA15B-0001-B126	Heat Shield/ Fiber Storage	$	25.76
Additional Part		FC9616FAC2	Faceplate Cover for Shelf	$	23.65
Additional Part	PW6A	PW6A	Power Supply	$	45.11
Additional Part		HS6A-AD2	High Speed Switch/Overhead Access, required for Terminal nodes in Regen applications	$	169.65
Additional Part		MP6A-24DL	Supports software download and MP6A-24G features	$	130.76
Additional Part		TCA-ENH	Enhanced TCA unit, supports sync messaging application	$	62.16
Additional Part	AW6A	AW6A-BSC	Alarm and Orderwire- Alarm Only	$	45.99
Additional Part		HC6A-6EL2	High Speed- 2.4 Gb/s Upgrade; Ring, Term LNR ADM (can drop OC-12 TRIBs from shelf)	$	217.94
Additional Part		SV6A-24G	Supervisory- 2.4 Gb/s Upgrade	$	43.59

Fujitsu SONET
and Related Equipment
Group II: Lease

Group II - 33

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP II: LEASE (12-MONTH)	
			(Lease rates do not include the use tax of .5%)	
Item No.	**Slot**	**Unit Type**	**Description**	**Monthly Lease Price ($)**
Additional Part		Cable (CAB3)	Interconnects 600 Tributary interface cards: HC6A-6EL2 to HC6A-6EL2. Used front-of-card to front-of-card; UPSR applications.	$ 11.76
Additional Part		Cable (CAB4)	Signal cables between HS shelf and HCA6-6EL2 units in FLM 600 ADM TRIB shelf; used to inter-connect HS shelf with HD Tributary shelves	$ 11.76
Additional Part		Tributary Interface Cable	Intershelf cable; 5'	$ 5.82
Additional Part		Tributary Interface Cable	Intershelf cable; 7"	$ 5.82
Additional Part		EC6A-24G	EOC Processor- used for 2.4G connection	$ 175.47
Additional Part		SV6A-24G	Supervisory- 2.4 Gb/s Upgrade	$ 43.59
Additional Part		MC6A-D3A2	Middle Speed- 3 x DS3 interface/ protected 1:1; (Provides unequipped code switching and STS-1 AIS injection)	$ 122.47
Additional Part		MC6A-ST1P	Middle Speed Channel Unit ST1P. Provides POH, UNEQ, PDI, AIS generation and PLM	$ 109.47
Additional Part		MC6A-31xM MC6A-31FM (FC Connector) MC6A-31CM (SC Connector) MC6A-31MT (ST Connector) MC6A-31DM (D4 Connector)	Middle-speed channel Unit - OC-3 (Intermediate Reach); Supports the OC-3 tributary interface as follows: Line interface 155.52 Mb/s optical signal; Optical power level = middle; Optical wave length = 1310 nm; Operation temperatur range: -40º to +65ºC; span length = intermediate reach (15 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; drops/inserts Section and Line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR applications only); Provides terminal and facility loopback functions; Monitors the bit error rate (BER); Provides provisionable Payload Defect Indication (PDI) signal STS-1/STS-3c paths used for UPSR applications when mounted in FLM600ADM and FLM600TRIB shelves; Supports Payload label Mismatch (PLM signal STS-1/STS-3c path code used for UPSR applications when mounted in FLM600ADM and FLM600TRIB shelves; Unit common to FLM150ADM, FLM600ADM, and FLM2400ADM	$ 191.13

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 34

<table>
<tr><td colspan="6" align="center">GROUP II: LEASE (12-MONTH)
(Lease rates do not include the use tax of .5%)</td></tr>
<tr><td>Item No.</td><td>Slot</td><td>Unit Type</td><td>Description</td><td colspan="2">Monthly Lease Price ($)</td></tr>
<tr>
<td>Additional Part</td>
<td></td>
<td>MC6A-31xL
MC6A-31FL
(FC Connector)
MC6A-31CL
(SC Connector)
MC6A-31TL
(ST Connector)
MC6A-31DL
(D4 Connector)</td>
<td>Supports PLM, PDI and MC6A-31Lx features (Middle-speed channel unit - OC-3 (long reach; Supports the OC-3 trib interfaces as follows: Line interface: 155.52 Mb/s optical signal' Optical power level = High, Optical wavelength: 1310 nm, Operation temperature range: -40º through +65ºC, Span length: Long reach (40 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switchuing at STS-1 or STS-3c levels; Unit common to FLM-150ADM, FLM-600ADM, and FLM-2400ADM)</td>
<td>$</td>
<td align="right">178.93</td>
</tr>
<tr>
<td>Additional Part</td>
<td></td>
<td>MC6A-31Sx
MC6A-31SR
(FC Connector)
MC6A-31SC
(SC Connector)
MC6A-31ST
(ST Connector)
MC6A-31SD
(D4 Connector)</td>
<td>Middle Speed- OC-3 Short Reach, 1310 nm, FC, SC, ST, D4 Connectors (Optical 1 x OC-3 middle-speed interface (1310 nm) short reach; less than 8 km span length; protected 1+1; 0ºC to 50ºC; common with 2400 ADM HD Trib/ 600 ADM; FC, SC, ST, D4 connector(s); optical power level = low)</td>
<td>$</td>
<td align="right">-</td>
</tr>
<tr>
<td>Additional Part</td>
<td></td>
<td>MC6A-31xS
MC6A-31FS
(FC Connector)
MC6A-31CS
(SC Connector)
MC6A-31TS
(ST Connector)
MC6A-31DS
(D4 Connector)</td>
<td>Supports PLM, PDI, and MC6A-31Lx features (Optical 1 x OC-3 middle-speed interface (1310 nm) short reach; less than 8 km span length; protected 1+1; 0ºC to 50ºC; common with 2400 ADM HD Trib/ 600 ADM; FC, SC, ST, D4 connector(s); optical power level = low)</td>
<td>$</td>
<td align="right">197.88</td>
</tr>
</table>

Fujitsu SONET
and Related Equipment
Group II: Lease

SPO Price List No. 00-18
12/1/99 to 11/30/01

Group II - 35

GROUP II: LEASE (12-MONTH)				
(Lease rates do not include the use tax of .5%)				
Item No.	**Slot**	**Unit Type**	**Description**	**Monthly Lease Price ($)**
Additional Part		MC6A-31xA MC6A-31FA (FC Connector) MC6A-31CA (SC Connector) MC6A-31TA ST Connector) MC6A-31DA (D4 Connector)	Multi-Mode Middle-speed channel unit OC-3 (short reach); supports the OC-3 Trib interface as follows: Line interface 1555.52 Mb/s optical signal, Optical power level: low, Optical wavelength 1270 to 1360 nm, Operation temperature range: -40º to +65ºC, Span length: short reach (5.1 km typical); Multiplexes and demultiplexes three STS-1 signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR and BLSR applications; Provides terminal and facility lookback functions; Monitors BER; Provides provisionable payload defect indication (PDI) signal STS-1/STS-3s paths when used for UPSR and BLSR applications; Supports SONET/SDH; Unit common to FLM150ADM, FLM-600ADM, and LM-2400ADM system that accomodate multi-mode fiber connections	$ 197.88
Additional Part		MS6A-OPT2	Supports synchronization status messaging and MS6A-OPT features	$ 83.83

Fujitsu SONET
and Related Equipment
Group II: Lease

Group II - 36

SPO Price List No. 00-18
12/1/99 to 11/30/01

GROUP III: MAINTENANCE

Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.1 FACTR					
CMS Common Plug-in Units					
3.1.1	Shelf	SF1C	FACTR Common Shelf	No Longer Available From Manufacturer	No Longer Available From Manufacturer
Replaces 3.1.1	Shelf	HA15B-0001-B247	FACTR Common Shelf	$ 11.00	$ 9.90
3.1.2	PW1C	PW1C	Power unit for CMS	$ 4.40	$ 3.30
3.1.3	SV1C	SV1C-PB	Supervisory (OS) interface for TL1/ X.2 5; user TL1 commands, FLEXR	$ 16.50	$ 14.30
3.14		SV1C-PB2	Supports SV1C-PB features, Data Communication Channel (DCC) access, and processing of the SONET overhead for the high-speed line	$ 16.50	$ 14.30
3.15		SV1C-DL1	Supervisory- TL1/ X.25, user TL1 commands, supports software download, FLEXR	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.16		SV1C-DL2	Supports SV 1C-PB features and Local Communication Network (LCN) based OSS interface	$ 13.20	$ 11.00
3.1.7	MP1C	MP1C-BSC	Main CPU for SONET portion	$ 12.10	$ 9.90
3.1.8		MP1C-DL1	Main CPU for SONET portion, supports software download	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.1.9		MP1C-DL2	Supports MP1C-DL1 features and Local Communication Network (LCN) based OSS interface	$ 11.00	$ 8.80
3.1.10	EM1C	EM1C-BSC	Main CPU for DLC portion (TR-008)	$ 13.20	$ 11.00
3.1.11		EM1C-DL1	Main CPU for DLC portion (TR-008)	$ 8.80	$ 7.70
3.1.12	AW1C	AW1C-BSC	Alarm unit	$ 3.30	$ 2.20
3.1.13		AW1C-ENH	Alarm and orderwire unit	$ 26.40	$ 22.00
3.1.14		AW1C-ENH2	Supports AW1C-BSC features, and two and four wire voice frequency extension	$ 26.40	$ 22.00
3.1.15	TC1C	TC1C	Timing control unit external timing input available	$ 3.30	$ 3.30
3.1.16		TC1C-ENH	Support TC1C features and synchronization messaging	$ 14.30	$ 12.10

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 1

SPO Price List No. 00-18
12/1/99 to 11/30/01

Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
			GROUP III: MAINTENANCE		
3.1.17	TS1C	TS1C-NB	Time slot assignment unit, serves first 960 subscriber lines (TR-008 modes I, II, & III)	$ 13.20	$ 11.00
3.1.18		TS1C-NE2	Time slot assignment unit, serves first 960 subscriber lines (TR-008 modes I, II, & III) TR-303 4:1 TDM support	$ 5.50	$ 5.50
3.1.19	EX1C	EX1C-NB	Time slot assignment unit, serves second 960 subscriber lines (TR-008 modes I, II, & III)	$ 50.60	$ 42.90
3.1.20		EX1C-NE2	Time slot assignment unit, serves second 960 subscriber line (TR-008 modes I, II, & III) TR-303 4:1 TDM support	$ 53.90	$ 45.10
3.1.21	MC1C	MC1C-AS	VT & DS1 termination for NBS/NFS SERVICES (Async)	$ 16.50	$ 14.30
3.1.22		MC1C-AS2	Supports MC1C-AS features. Supports TR-008 and TR-303	$ 8.80	$ 6.60
3.1.23		MC1C-APU	Provides ATM datapath and supervisory functions for FASTLANE subsystem. For DS3 UNI, provides traffic management	$ 28.60	$ 24.20
3.1.24		MC1C-2ET1	Provides up to two Ethernet ports to be ATM mapped into an STS-1 for transport across a SONET network	$ 44.00	$ 36.30
3.1.25		MC1C-4ET1	Provides up to four Ethemet ports to be ATM mapped into an STS-1 for transport across a SONET network	$ 63.80	$ 52.80
3.1.26		MC1C-MDM	Multiplexes/ Demultiplexes one STS-1 to 7 VT groups for DS1 extensions from the CMS Protected	$ 31.90	$ 26.40
3.1.27		MC1C-D3	Provides DS3 extensions from the CMS pROTEC	$ 19.80	$ 16.50
3.1.28		MC1C-M3A2	Supports MC1C-D3 features, enhanced Performance Monitoring, and PSWOPT	$ 19.80	$ 16.50
3.1.29		MC1C-D3U	Provides two ports of ATM UNI	$ 67.10	$ 56.10
3.1.30		MC1C-STS1	Provides STS-1 extensions from the CMS	$ 26.40	$ 22.00

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 2

SPO Price List No. 00-18
12/1/99 to 11/30/01

Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.1.31		MC1C-ST1P	Supports MC1C-STS1 features, Payload Label Mismatch (PLM) and Payload Defect Indicator (PDI)	$ 26.40	$ 22.00
3.1.32		MC1C-MRx1 MC1C-MRC1 (SC Connector) MC1C-MRD1 (D4 Connector) MC1C-MRF1 (FC Connector) MC1C-MRT1 (ST Connector)	Provides middle reach OC-3 extensions from the CMS. Note values for 'x' in Unit Type field	$ 37.40	$ 30.80
3.1.33		MC1C-TMD3	Demultiplexes the DS3 signals into DS I signals, then maps them to VT1.5 rate signals. STS-1 signals are demapped to DS3 signals.	$ 70.40	$ 58.30
3.1.34		MC1C-TME1	Demultiplexes the DS3 payload into DS1 rate signals. Maps the DSI signals to the VTI.5 rate signals.	$ 70.40	$ 58.30
3.1.35	CC1C	CC1C-BSC	Call control unit, TR-008, Mode II only	$ 5.50	$ 4.40
3.1.36		CC1C-ENH	Call control unit, supports TR-008 Mode II & TR-303, supports Time-slot Management Channel (TMC), Supports software download	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.1.37		CC1C-DL1	Call control unit, supports TR-008 Mode II & TR-303, supports Time-slot Management Channel (TMC), Supports software download	$ 2.20	$ 2.20
3.1.38	MA1C	MA1C-ENH	Metallic Access (CMS) Basic Unit	$ 5.50	$ 4.40
3.1.39		MA1C-DL1	Supports MA1C-ENH features, software download, and remote memory backup	$ 3.30	$ 2.20
3.1.40	DP1C	DP1C	Display (CMS) Unit	$ 2.20	$ 2.20
3.1.41	XT1C	XT1C-BSC	Extended Test (CMS) Basic Unit	$ 12.10	$ 9.90
3.1.42		XT1C-ENH	Supports XT1C-BSC features and ISDN local test access	$ 14.30	$ 12.10

GROUP III: MAINTENANCE

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 3

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.1.43	EP1C	EP1C-DL1	EOC processor in TR-303 mode (CMISE with SW/DL)	$ 5.50	$ 5.50
CMS Transport Plug-in Units					
3.1.44	LC1A	LC1A-D1	Low-speed 4xDS1	$ 5.50	$ 4.40
3.1.45		LC1A-D1E	Enhanced Low-speed 4xDS1	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.1.46		LC1A-D1E2	Enhanced Low-spccd 4xDS1	$ 12.10	$ 9.90
3.1.47		LC1A-F6	Low-speed OVTG	$ 25.30	$ 20.90
3.1.48		LC1A-F6x1 LC1A-F6C1 (SC Connector) LC1A-F6T1 (ST Connector) LC1A-F6D1 (D4 Connector)	NOTE: Values for 'x' in Unit Type field	$ 25.30	$ 20.90
3.1.49	LS1A	LS1A-D1	LC1A protection switching	$ 4.40	$ 3.30
3.1.50	EC1C	EC1C	Control SONET DCC for BT1C tributary in OC-12	$ 24.20	$ 20.90
3.1.51		EC1C-DL1	Control SONET DCC for BT1C tributary in OC-12, supports software download	$ 29.70	$ 24.20
3.1.52	BT1C	BT1C-D3	Provides DS3 extensions from the CMS, used in OC-12 systems	$ 39.60	$ 33.00
3.1.53		BT1C-STS1	Provides STS-1 extensions from the CMS, used in OC-12 systems	$ 26.40	$ 22.00
3.1.54		BT1C-ST1P	Supports BT1C-STS features, Payload Label Mismatch (PLM) and Payload Defect Indicator (PDI)	$ 26.40	$ 22.00
3.1.55		BT1C-3Mx1	Provides middle reach OC-3 extensions from the CMS, used in OC-12 systems. Note: Values in 'x'	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.1.56		BT1C-3Lx1	Provides long reach OC-3 extensions from the CMS, used in OC-12 systems	No Longer Available From Manufacturer	No Longer Available From Manufacturer

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 4

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		

Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
Replaces 3.1.55 and 3.1.56		BT1C-MRx1 BT1C-MRF1 (FC Connector) BT1C-MRC1 (SC Connector) BT1C-MRT1 (ST Connector)	Broadband Trib Unit: Optical OC-3 (3 x STS-1) middle reach trib per unit:(FC, ST, SC, D4 conn); UNEQ path switch; adds PDI/PLM; 1:1 protection; 6 max/system, in MSG 6,7,8;;1 required per OC-3 trib; OC-12 UPSR configurations only.	$ 37.40	$ 30.80
3.1.57	TS1A	TS1A-ENH	Same as TA1C plus performs path selections and groom into STS-1	$ -	$ -
Corrects Description 3.1.57	TS1A	TS1A-ENH	Automatic synchronization switching (NE/derived DS1 primary/derived DS1 secondary reference) by synchronization message; SONET timing can be extracted from the BT1C units	$ 35.20	$ 29.70
Additional Part (Item 3.1.57)	TS1A	TS1A-ENH2	Same as TC1C-ENH plus: Provides the VT1.5 to STS-1 Hairpinning Cross-Connect function; Provides Path Switching criterion; Supports PDI/PLM	$ 59.40	$ 49.50
3.1.58	HS1A	HS1A-AD2	High speed line & unit protection switch	$ 8.80	$ 7.70
3.1.59	HS1C	HS1C	High speed line and unit protection switch for OC-12	$ 9.90	$ 8.80
3.1.60	HC1A	HC1A-3MR1 (FC Connector)	High speed OC-3 Intermediate Reach, 1310 nm	$ 20.12	$ 16.83
3.1.61		HC1A-3MC1 (SC Connector)	High speed OC-3 Intermediate Reach, 1310 nm, SC Connector	$ 23.10	$ 19.80
3.1.62		HC1A-3MT1 (ST Connector)	High speed OC-3 Intermediate Reach, 1310 nm, ST Connector	$ 23.10	$ 19.80
3.1.63		HC1A-3MD1 (D4 Connector)	High speed OC-3 Intermediate Reach, 1310 nm, D4 Connector	$ 23.10	$ 19.80
3.1.64		HC1A-3LR1 (FC Connector)	High speed OC-3 Long Reach, 1310 nm, FC Connector	$ 20.00	$ 16.74
3.1.65		HC1A-3LC1 (SC Connector)	High speed OC-3 Long Reach, 1310 nm, SC Connector	$ 22.00	$ 18.70
3.1.66		HC1A-3LT1 (ST Connector)	High speed OC-3 Long Reach, 1310 nm, ST Connector	$ 22.00	$ 18.70
3.1.67		HC1A-3LD1 (D4 Connector)	High speed OC-3 Long Reach, 1310 nm, D4 Connector	$ 22.00	$ 18.70

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 5

SPO Price List No. 00-18
12/1/99 to 11/30/01

Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.1.68		HC1A-3LR2 (FC Connector)	High speed OC-3 Very Long Reach, 1550 nm, Non-hardened	$ 127.60	$ 106.70
3.1.69		HC1A-3LC2 (SC Connector)	High speed OC-3 Very Long Reach, 1550 nm, SC Connector	$ 127.60	$ 106.70
3.1.70		HC1A-3LT2 (ST Connector)	High speed OC-3 Very Long Reach, 1550 nm, ST Connector, Non-hardened	$ 127.60	$ 106.70
3.1.71		HC1A-3LD2 (D4 Connector)	High speed OC-3 Very Long Reach, 1550 nm, D4 Connector, Non-hardened	$ 127.60	$ 106.70
3.1.72		HC1A-3LR3 (FC Connector)	High speed OC-3 Long Reach, Non-hardened	$ 23.10	$ 18.70
3.1.73		HC1A-3LC3 (SC Connector)	High speed OC-3 Long Reach, 1310 nm, ST Connector, Non-hardened	$ 23.10	$ 18.70
3.1.74		HC1A-3LT3 (ST Connector)	High speed OC-3 Long Reach, 1310 nm, ST Connector, Non-hardened	$ 23.10	$ 18.70
3.1.75		HC1A-3LD3 (D4 Connector)	High speed OC-3 Long Reach, 1310 nm, D4 Connector, Non-hardened	$ 23.10	$ 18.70
3.1.76		HC1A-3SR1 (FC Connector)	High speed OC-3 Short Reach, 1310 nm, FC Connector, Non-hardened	$ 17.60	$ 14.30
3.1.77		HC1A-3SC1 (SC Connector)	High speed OC-3 Short Reach, 1310 nm, SC Connector, Non-hardened	$ 17.60	$ 14.30
3.1.78		HC1A-3ST1 (ST Connector)	High speed OC-3 Short Reach, 1310 nm, ST Connector, Non-hardened	$ 17.60	$ 14.30
3.1.79		HC1A-3SD1 (D4 Connector)	High speed OC-3 Short Reach, 1310 nm, D4 Connector, Non-hardened	$ 17.60	$ 14.30
Additional Part (Item 3.1.79)	HC1C	MC6A-31FA (FC Connector)	HS Optical 1x OC-3 intfc (1310 nm)Protected 1+1; short Reach Multi-Mode fiber capability; FC CONNECTOR	$ 25.30	$ 20.90
Additional Part (Item 3.1.79)	HC1C	MC6A-31CA (SC Connector)	HS Optical 1x OC-3 intfc (1310 nm)Protected 1+1; short Reach Multi-Mode fiber capability; SC CONNECTOR	$ 25.30	$ 20.90

GROUP III: MAINTENANCE

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 6

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	**Slot**	**Unit Type**	**Description**	**24-Hour Monthly Maint Service Price**	**Prime Period Monthly Maint Service Price**
Additional Part (Item 3.1.79)	HC1C	MC6A-31TA (ST Connector)	HS Optical 1x OC-3 intfc (1310 nm)Protected 1+1; short Reach Multi-Mode fiber capability; ST CONNECTOR	$ 25.30	$ 20.90
Additional Part (Item 3.1.79)	HC1C	MC6A-31DA (D4 Connector)	HS Optical 1x OC-3 intfc (1310 nm)Protected 1+1; short Reach Multi-Mode fiber capability; D4 CONNECTOR	$ 25.30	$ 20.90
3.1.80	HC1C	HC1C-6LR1	High speed OC-12 Long Reach, 1310 nm, FC Connector	$ 106.70	$ 89.10
3.1.81		HC1C-6LC1	High speed OC-12 Long Reach, 1310 nm, SC Connector	$ 106.70	$ 89.10
3.1.82		HC1C-6LT1	High speed OC-12 Long Reach, 1310 nm, ST Connector	$ 106.70	$ 89.10
3.1.83		HC1C-6LD1	High speed OC-12 Long Reach, 1310 nm, D4 Connector	$ 106.70	$ 89.10
NBS Common Plug-in Units					
3.1.84	Shelf	SF-1N	FACTR Narrowband Shelf	No Longer Available From Manufacturer	No Longer Available From Manufacturer
Replaces 3.1.84	Shelf	HA15B-0001-B248	FACTR Narrowband Shelf	$ 7.70	$ 6.60
3.1.85	PW1N	PW1N (COT or RT)	Power unit for NBS	$ 2.20	$ 2.20
3.1.86	AT1N	AT1N-C	Alarm Control/ Test for COT	$ 11.00	$ 9.90
3.1.87		AT1N-R2	Alarm Control/ Test for RT: TR-303	$ 6.60	$ 5.50
3.1.88		AT1N-RE	Supports TSC/TRU test interface	No Longer Available From Manufacturer	No Longer Available From Manufacturer
Replaces 3.1.88		AT1N-RE2	Supports TSC/TRU test interface	$ 13.20	$ 11.00
3.1.89	MD1N	MD1N	Mux/Demux units	No Longer Available From Manufacturer	No Longer Available From Manufacturer
Replaces 3.1.89	MD1N	MD1N2	Mux/Demux unit; Adds TR-303	$ 6.60	$ 5.50
FACTR Channel Plug-in Units					
3.1.103	CH	POTS (COT)	POTS Channel Unit - COT	$ 2.20	$ 2.20
3.1.104		POTS (RT)	POTS Channel Unit - RT	$ 2.20	$ 2.20

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 7

SPO Price List No. 00-18
12/1/99 to 11/30/01

Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
			GROUP III: MAINTENANCE		
3.1.105		POTS (S)	TR-909 Compliant POTS Unit	Not An Available Product	Not An Available Product
3.1.106		Q-POTS (COT)	Quad POTS Channel Unit - COT	$ 4.40	$ 4.40
3.1.107		Q-POTS (RT)	Quad POTS Channel Unit - RT	$ 4.40	$ 3.30
3.1.108		Q-POTS (S)	TR-909 Compliant Quad POTS Unit	Not An Available Product	Not An Available Product
3.1.109		UVC1 (COT)	POTS Channel Unit - COT	$ 3.30	$ 3.30
3.1.110		UVC1 (RT)	Universal Channel Unit 1 - RT	$ 4.40	$ 3.30
3.1.111		Q-UVC1 (COT)	POTS Channel Unit - COT	$ 5.50	$ 5.50
3.1.112		Q-UVC1 (RT)	Universal Voice Channel Unit I - RT	$ 6.60	$ 5.50
3.1.113		COIN (COT)	Coin Channel Unit (COT)	$ 4.40	$ 3.30
3.1.114		COIN (RT)	Coin Channel Unit (RT)	$ 6.60	$ 5.50
3.1.115		VUC2-A	Universal Voice Channel Unit 2-A	$ -	$ -
Corrects Unit Type 3.1.115		UVC2A	Universal Voice Channel Unit 2-A	$ 4.40	$ 3.30
3.1.116		UVC2-B	Universal Voice Channel Unit 2-B	$ 4.40	$ 3.30
3.1.117		4W-1	Four Wire Channel Unit I	$ 3.30	$ 3.30
3.1.118		4W-2	Four Wire Channel Unit 2	$ 4.40	$ 4.40
3.1.119		4W-3	Four Wire Channel Unit 3	$ 5.50	$ 4.40
3.1.120		DSO-DP	Digital Signal Zero Data Port Unit	$ 3.30	$ 3.30
3.1.121		OCU-DP	Office Channel Unit Data Port	$ 6.60	$ 5.50
3.1.122		DID (COT)	Coin Channel Unit (COT)	$ -	$ -
Corrects Description 3.1.122		DID (COT)	Direct Inward Dial Unit (COT)	$ 3.30	$ 3.30
3.1.123		DID (RT)	Direct Inward Dial Unit (RT)	$ 5.50	$ 4.40
3.1.124		APP (COT)	Active P-Phone Unit (COT)	$ 6.60	$ 5.50
3.1.125		APP (RT)	Active P-Phone Unit (RT)	$ 8.80	$ 7.70
3.1.126		AN12 (COT)	2-Party ANI Unit (COT)	$ 6.60	$ 5.50
3.1.127		AN12 (RT)	2-Party ANI Unit (RT)	$ 6.60	$ 5.50
3.1.128		PAS (COT)	POTS Alarm Service (COT)	$ 3.30	$ 2.20

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 8

SPO Price List No. 00-18
12/1/99 to 11/30/01

Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
			GROUP III: MAINTENANCE		
3.1.129		PAS (RT)	POTS Alarm Service (RT)	$ 5.50	$ 4.40
3.1.130		DCA-L	DC Alarm Card (Loop)	$ 5.50	$ 4.40
3.1.131		DCA-P	DC Alarm Card (Polarity Reversal)	$ 6.60	$ 5.50
Additional Part (Item 3.1.131)		D-BRU-LT	Basic Rate ISDN "U" Interface-Line; TR-008 using the 3 DS0 method; Dual UnitUsed at the RT	$ 8.80	$ 7.70
3.1.132		D-BRU-LT2	Basic Rate U-Interface-Line Term(Dual Card) TR-008 operation using the 3 DS0 method 4:1 D-Channel TDM for TR-303 IDLC	$ 4.40	$ 3.30
3.1.133		D-BRU-NT	Basic Rate U-Interface-Ntwk Term	$ 9.90	$ 7.70
3.2 FLM 150					
Hardwired Equipment					
3.2.1		HA0IB-0037-A042	Standard Configuration: ADM shelf assembly, faceplate and heat/fiber tray (7'x23"x1" mtg- Central Office Relay Rack Assembly equipped with one FLM-150ADM, F&A panel, heat baffle & fiber tray. (five FLM-150ADMs max per rack))	$ 70.40	$ 58.30
Additional Part (Item 3.2.1)		Shelf	ADM Shelf	$ 18.70	$ 15.40
3.2.2		HA15B-0001-	ADM Shelf Assembly	$ 18.70	$ 15.40
3.2.3		HA15B-0001-	Heat Shield/Fiber Storage	$ 4.40	$ 3.30
3.2.4		H15B-5101-B147	OVTG Fiber Tray	$ 3.30	$ 3.30
3.2.5		FC9612FAC-I03	Faceplate Cover for Shelf	$ 6.60	$ 5.50
Common Plug-in Units					
3.2.6	PW1A	FC9612PW11-I07	Power Unit	$ 5.50	$ 4.40
3.2.7	HS1A	HS1A-AD2	High speed Switch/Overhead Access	$ 8.80	$ 7.70
3.2.8	MP1A	MP1A-V2	Microprocessor-All TRIB interfaces	$ 11.00	$ 9.90
3.2.9		MP1A-V3	Microprocessor-Supports all TRIB interfaces, OC-12 Optics, and TS1A-ENH	$ 11.00	$ 9.90
3.2.10		MP1A-ADL	Microprocessor-Supports all TRIB interfaces, OC-12 Optics, and TS1A-ENH, and software download	$ 9.90	$ 8.80

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 9

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.2.11	AW1A	AW1A-BSC	Alarm-Alarm Only	$ 3.30	$ 3.30
3.2.12		AW1A-ENH	Alarm and Order-wire-O/W/, Housekeeping	$ 18.70	$ 15.40
3.2.13	SV1A	SV1A-TB	Supervisory-TBOS; all TRIB interfaces	$ 26.40	$ 22.00
3.2.14		SV1A-TL4	Supervisory-TL1/X.25; all TRIB interfaces, supports OC-12 & TS1A-ENH, supports software download, TL1 command, FLEXR	$ 27.50	$ 23.10
3.2.15		SV1A-TDL	Supervirosy-TL1/X.25; all TRIB interfaces, supports OC-12 & TS1A-ENH, supports software download, TL1 command, FLEXR+C11	$ 25.30	$ 20.90
3.2.16	TCA	TCA	Timing Control	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.2.17		TCA-ENH	Enhanced TCA unit, supports sync messaging application	$ 8.80	$ 7.70
Transport Plug-in Units					
3.2.18	LC1A	LC1A-D1	Low Speed-4xDS1	$ 5.50	$ 4.40
3.2.19		LC1A-D1E	Enhanced Low Speed-4xDS1	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.2.20		LC1A-D1E2	Enhanced Low Speed-4xDS1	$ 12.10	$ 9.90
Additional Part (Item 3.2.20)		LC1A-TIO	Token Ring module; contains the physical connectors and analog circuitry required for token Ring connections	$ 13.20	$ 11.00
Additional Part (Item 3.2.20)		LC1A-10BT	Low-speed physical/electrical interface for one Ethernet 10Base-T LAN traffic port	$ 8.80	$ 7.70
3.2.21		Streaker Card	Test Unit-DS1	$ 2.20	$ 2.20
3.2.22		LC1A-F6 (FC Connector)	Low Speed-OVTG, available in FC, SC, ST, D4 Connectors	$ 25.30	$ 20.90
3.2.23	LS1A	LS1A-D1	Low Speed Switch-DS1/ OVTG	$ 4.40	$ 3.30
3.2.24	EC1A	EC1A-V2	EOC Processor (DCC)/OC-3 SwitchOC-3/OVTG/STS-1 Tributary	$ 20.90	$ 17.60

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 10

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.2.25		EC1A-DL2	EOC Processor (DCC)/OC-3 Switch-OC-3/OVTG/STS-1 Tributary, supports software download	$ 45.10	$ 37.40
3.2.26	MCXA	MC1A-MDM1	Middle Speed-DSI/ OVTG Muldem	$ 5.50	$ 4.40
3.2.27		MC1A-D3A2	Middle Speed-DS3, Provides STS-1, Unequipped code path switching and STS- I AIS injection	$ 14.30	$ 12.10
Additional Part (Item 3.2.27)		MC1A-TMD3	Middle-speed channel Transmux unit; provides the interface and input/output processing for DS-3 rate signals	$ 61.60	$ 51.70
3.2.28		MC1A-STS1	Middle Speed- STS-1	No Longer Available From Manufacturer	No Longer Available From Manufacturer
Replaces 3.2.28		MC1A-ST1P	Middle Speed- STS-1 Channel Unit with the EC-1 interface	$ 17.60	$ 14.30
3.2.29		MC6A-31Mx	Middle Speed- OC-3 Intermediate Reach, 1310 nm, FC, SC, D4 Connectors	No Longer Available From Manufacturer	No Longer Available From Manufacturer

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 11

SPO Price List No. 00-18
12/1/99 to 11/30/01

GROUP III: MAINTENANCE					
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
Replaces 3.2.29		MC6A-31xM MC6A-31FM (FC Connector) MC6A-31CM (SC Connector) MC6A-31MT (ST Connector) MC6A-31DM (D4 Connector)	Middle-speed channel Unit - OC-3 (Intermediate Reach); Supports the OC-3 tributary interface as follows: Line interface 155.52 Mb/s optical signal; Optical power level = middle; Optical wave length = 1310 nm; Operation temperatur range: -40° to +65°C; span length = intermediate reach (15 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; drops/inserts Section and Line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR applications only); Provides terminal and facility loopback functions; Monitors the bit error rate (BER); Provides provisionable Payload Defect Indication (PDI) signal STS-1/STS-3c paths used for UPSR applications when mounted in FLM600ADM and FLM600TRIB shelves; Supports Payload label Mismatch (PLM signal STS-1/STS-3c path code used for UPSR applications when mounted in FLM600ADM and FLM600TRIB shelves; Unit common to FLM150ADM, FLM600ADM, and FLM2400ADM	$ 25.30	$ 22.00
3.2.30		MC6A-31Lx	Middle Speed- OC-3 Long Reach, 1310 nm, FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer	No Longer Available From Manufacturer
Replaces 3.2.30		MC6A-31xL MC6A-31FL (FC Connector) MC6A-31CL (SC Connector) MC6A-31TL (ST Connector) MC6A-31DL (D4 Connector)	Middle-speed channel unit - OC-3 (long reach; Supports the OC-3 trib interfaces as follows: Line interface: 155.52 Mb/s optical signal' Optical power level = High, Optical wavelength: 1310 nm, Operation temperature range: -40° through +65°C, Span length: Long reach (40 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switchuing at STS-1 or STS-3c levels; Unit common to FLM-150ADM, FLM-600ADM, and FLM-2400ADM	$ 25.30	$ 22.00

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 12

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		

Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.2.31		MC6A-3LX2	Middle Speed- OC-3 Very Long Reach, 1550 nm, FC, SC, ST, D4 Connectors, Non-hardened	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.2.32		MC6A-3SX1	Middle Speed- OC-3 Short Reach, 1310 nm, FC, SC, ST, D4 Connectors, Non-hardened	No Longer Available From Manufacturer	No Longer Available From Manufacturer
Replaces 3.2.32		MC6A-31xS MC6A-31FS (FC Connector) MC6A-31CS (SC Connector) MC6A-31TS (ST Connector) MC6A-31DS (D4 Connector)	Optical 1 x OC-3 middle-speed interface (1310 nm) short reach; less than 8 km span length; protected 1+1; 0ºC to 50ºC; common with 2400 ADM HD Trib/ 600 ADM; FC, SC, ST, D4 connector(s); optical power level = low	$ 26.40	$ 22.00
Additional Part (Item 3.2.32)		MC6A-31xA MC6A-31FA (FC Connector) MC6A-31CA (SC Connector) MC6A-31TA ST Connector) MC6A-31DA (D4 Connector)	Multi-Mode Middle-speed channel unit OC-3 (short reach); supports the OC-3 Trib interface as follows: Line interface 1555.52 Mb/s optical signal, Optical power level: low, Optical wavelength 1270 to 1360 nm, Operation temperature range: -40º to +65ºC, Span length: short reach (5.1 km typical); Multiplexes and demultiplexes three STS-1 signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR and BLSR applications; Provides terminal and facility lookback functions; Monitors BER; Provides provisionable payload defect indication (PDI) signal STS-1/STS-3s paths when used for UPSR and BLSR applications; Supports SONET/SDH; Unit common to FLM150ADM, FLM-600ADM, and LM-2400ADM system that accomodate multi-mode fiber connections	$ 26.40	$ 22.00
3.2.33	TS1A	TS1A-BSC	Time-Slot Assignment- VT-1.5, STS-1	$ 35.20	$ 29.70
3.2.34		TS1A-ENH	Enhanced Time Slot Assignment -VT1.5, STS-1; provides VT1.5 path selection and groorning into an EC-1 or OC-3 tributary	$ 35.20	$ 29.70

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 13

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.2.35		TS1A-ENH2	Provides VTl.5 to STS-1 hairpinning cross-connect function. Supports TS1A-ENH features.	$ 59.40	$ 49.50
3.2.36	HC1A	HC1A-3MX1	High Speed- OC-3 Intermediate Reach, 1310 nm, FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.2.37		HC1A-3LX1 HC1A-3LR1 (FC Connector) HC1A-3LC1 (SC Connector) HC1A-3LT1 (ST Connector) HC1A-3LD1 (D4 Connector)	High Speed- OC-3 Long Reach, 1310 nm, FC, SC, ST, D4 Connectors	$ 20.00	$ 16.74
3.2.38		HC1A-3LX2 HC1A-3LR2 (FC Connector) HC1A-3LC2 (SC Connector) HC1A-3LT2 (ST Connector) HC1A-3LD2 (D4 Connector)	High Speed- OC-3 Very Long Reach, 1550 nm, FC, SC, ST, D4 Connectors, Non-hardened	$ 136.40	$ 114.40
3.2.39		HC1A-3LX3	High Speed- OC-3 Very Long Reach, 1310 nm, FC, SC, ST, D4 Connectors, Non-hardened	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.2.40		HC1A-3SX1 HC1A-3SR1 (FC Connector) HC1A-3SC1 (SC Connector) HC1A-3ST1 (ST Connector) HC1A-3SD1 (D4 Connector)	High Speed- OC-3 Short Reach, 1310 nm, FC, SC, ST, D4 Connectors, Non-hardened	$ 18.70	$ 15.40
3.2.41		HC1A-STS1	High Speed- 3 x STS-1	$ 24.20	$ 19.80

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 14

SPO Price List No. 00-18
12/1/99 to 11/30/01

GROUP III: MAINTENANCE					
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.2.42		HC1A-6LX1 HC1A-6LR1 (FC Connector) HC1A-6LC1 (SC Connector) HC1A-6LT1 (ST Connector) HC1A-6LD1 (D4 Connector)	High Speed- OC-12 Long Reach, 1310 nm, FC, SC, ST, D4 Connectors, Hardened	$ 100.10	$ 84.70
Additional Part (Item 3.2.42)		STS Cable Set (Two cables per set)	Ribbon cable for 12 STS-1 pass-through on OC-12 Optic (Connects to front of unit); One set per unit	$ 1.10	$ 1.10
3.2.43		MC1A-APU	FASTLANE Processor	$ 25.30	$ 22.00
3.2.44		MC1A-ATM	FASTLANE STS-1/ ATM Converter	$ 17.60	$ 15.40
3.2.45		MC1A-RPU	FASTLANE Router Processor	$ 27.50	$ 23.10
3.2.46		LS1A-D3U	FASTLANE DS3 UNI card	$ 41.80	$ 35.20
3.2.47		LS1A-ETH	FASTLANE EPMB card	$ 8.80	$ 7.70
3.2.48		LS1A-RME	FASTLANE Ethernet Bridge/ Router	$ 11.00	$ 8.80
3.2.49		LS1A-RMT	FASTLANE Token Ring Bridge/ Router	$ 6.60	$ 5.50
3.2.50		LAN Cable Rel. 1	Ethernet LMP Interface kit (HA15B-001-D115	$ 1.10	$ 1.10
3.2.51		DS3 UNI Cable	DS3 UNI Interface kit (HA15B-0001-D114	$ 2.20	$ 2.20
3.3 FLM 6					
Hardwired Equipment					
3.3.1		Shelf	Modular Shelf with ears for rack mounting and Ethernet connector	$ 9.90	$ 8.80
3.3.2		Adapter	23" Rack Adapter	$ 2.20	$ 2.20
3.3.3		Adapter	19" Rack Adapter	$ 2.20	$ 2.20
3.3.4	HOUS	Wall Mount Cabinet	Wall Mountable cabinet for shelf enclosure	$ 15.40	$ 12.10
3.3.5	HARDW	Wall Mount Kit	Installation materials for wall mount enclosure	$ 2.20	$ 2.20
3.3.6	PWCNVT	Converter	AC/DC Pwr Converter	$ 4.40	$ 4.40
3.3.7	BTMN	Battery Monitor	Battery Monitor and low voltage disconnect	$ 4.40	$ 3.30
3.3.8	BAT	Batteries (Battery Kit)	Set of 4 batteries for wall mount housing battery backup	$ 2.20	$ 2.20
3.3.9	BAT	Batteries (Battery Backup)	Individual Spare Battery, mountable in wall mount enclosure	$ 1.10	$ 1.10

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 15

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.3.10	HARDW	Fuse Kit	Spare fuses for converter and battery monitor units	$ 1.10	$ 1.10
3.3.11	HARDW	Swing Kit (Plate)	Hinged plate for zero clearance for wall mount cabinet	$ 3.30	$ 3.30
3.3.12	MPU/ ALM	MPU & ALM2	Microprocessor- local user interface and alarms	$ 6.60	$ 5.50
3.3.13		MPU & ALM6	Supports software downloads. MPU & ALM2 features supported.	$ 11.00	$ 8.80
3.3.14	LC1A	LC1A-D1	Low Speed - 4xDS1	$ 5.50	$ 4.40
3.3.15		LC1A-D1E2	Enhanced Low Speed - 4xDS1	$ 12.10	$ 9.90
3.3.16		Streaker Card	Test Unit- DS1	$ 2.20	$ 2.20
3.3.17	OVTG	OVTG OVTG (FC Connector) OVTG (SC Connector) OVTG (ST Connector) OVTG (D4 Connector)	6 Mb/s optical interface with VT1.5 format. Available with FC, ST, SC, D4 connectors.	$ 25.30	$ 22.00
3.4 FLM 600					
Common Plug-in Units					
3.4.1		HA15B-0001-B070	ADM Shelf Assembly (Includes misc hardware for mounting in Fujitsu manufactured standard relay rack.)	$ 282.70	$ 236.50
Additional Part (Item 3.4.1)		Shelf	ADM Shelf Assembly	$ 57.20	$ 47.30
3.4.2		HA15B-0001-B126	Heat Shield/ Fiber Storage	$ 4.40	$ 3.30
3.4.3		FC9616FAC2	Faceplate Cover for Shelf	$ 3.30	$ 3.30
3.4.4	PW6A	PW6A	Power Supply	$ 5.97	$ 4.99
3.4.5		HS6A-AD2	High Speed Switch/Overhead Access, required for Terminal nodes in Regen applications	$ 23.10	$ 19.80
3.4.6		HS6A-REG	High Speed Switch/Overhead Access for Regen nodes	$ 20.90	$ 17.60

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 16

SPO Price List No. 00-18
12/1/99 to 11/30/01

Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.4.7	MP6A	MP6A-STD	Microprocessor- Term, Hub, No TSA	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.4.8		MP6A-ADM	Microprocessor- Term, Hub, Ring, ADM	$ 50.60	$ 41.80
3.4.9		MP6A-24G	Microprocessor- 2.4 Gb/s Upgrade	$ 17.60	$ 15.40
3.4.10		MP6A-ADL	Microprocessor- Software Downloadable for Term, Hub, ADM, Ring; Provides Time Slot Assignment	$ 53.90	$ 45.10
3.4.11		MP6A-24DL	Supports software download and MP6A-24G features	$ 17.60	$ 15.40
3.4.12		MP6A-REG	Microprocessor- supports OC-12 regenerator	$ 28.60	$ 24.20
3.4.13	AW6A	AW6A-BSC	Alarm and Orderwire- Alarm Only	$ 6.08	$ 5.09
3.4.14		AW6A-ENH	Alarm and Orderwire- O/W, Housekeeping	$ 16.50	$ 13.20
3.4.15		SV6A-TL2	Supervisory- TL1/ X.25, All TRIB interfaces, user TL1 command, FLEXR	$ 24.20	$ 20.90
3.4.16		SV6A-24G	Supervisory- 2.4 Gb/s Upgrade	$ 6.60	$ 5.50
3.4.17		SV6A-TDL	Supervisory OS Software Downloadable interface for TL1/ X.25/ LCN; user menu Mode, user TL1 commands, FLEXR, Supports all tributaries	$ -	$ -
Corrects Unit Type 3.4.17		SV6A-TDL1	Supervisory OS Software Downloadable interface for TL1/ X.25/ LCN; user menu Mode, user TL1 commands, FLEXR, Supports all tributaries	$ 39.60	$ 33.00
3.4.18		SV6A-REG	Supervisory OS interface, Regenerator	$ 28.60	$ 24.20
3.4.19	TCA	TCA	Timing Control	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.4.20		TCA-ENH	Supports TCA features and synchronization status messaging	$ 6.78	$ 5.68
Transport Plug-in Units					
3.4.21		MC6A-D3A2	Middle Speed- 3 x DS3 interface/ protected 1:1; (Provides unequipped code switching and STS-1 AIS injection)	$ 16.50	$ 14.30

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 17

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.4.22		MC6A-ST1E	Middle Speed-3 x STS-1	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.4.23		MC6A-ST1P	Middle Speed Channel Unit ST1P. Provides POH, UNEQ, PDI, AIS generation and PLM	$ 15.40	$ 13.20
3.4.24		MC6A-31Mx	Middle Speed- OC-3 Intermediate Reach, 1310 nm, Hardened, FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.4.25		MC6A-31xM MC6A-31FM (FC Connector) MC6A-31CM (SC Connector) MC6A-31MT (ST Connector) MC6A-31DM (D4 Connector)	Supports PLM, PDl and MC6A-31Mx features	$ 25.30	$ 22.00
3.4.26		MC6A-31Lx	Middle Speed- OC-3 Long Reach, 1310 nm, Hardened, FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.4.27		MC6A-31xL MC6A-31FL (FC Connector) MC6A-31CL (SC Connector) MC6A-31TL (ST Connector) MC6A-31DL (D4 Connector)	Supports PLM, PDI and MC6A-31Lx features (Middle-speed channel unit - OC-3 (long reach; Supports the OC-3 trib interfaces as follows: Line interface: 155.52 Mb/s optical signal' Optical power level = High, Optical wavelength: 1310 nm, Operation temperature range: -40º through +65ºC, Span length: Long reach (40 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switchuing at STS-1 or STS-3c levels; Unit common to FLM-150ADM, FLM-600ADM, and FLM-2400ADM)	$ 25.30	$ 22.00
3.4.28		MC6A-3LX3	Middle Speed- OC-3 Long Reach, 1310 nm, FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer	No Longer Available From Manufacturer

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 18

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.4.29		MC6A-31Sx	Middle Speed- OC-3 Short Reach, 1310 nm, FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.4.30 Replaces 3.4.29		MC6A-31xS MC6A-31FS (FC Connector) MC6A-31CS (SC Connector) MC6A-31TS (ST Connector) MC6A-31DS (D4 Connector)	Supports PLM, PDI, and MC6A-31Lx features (Optical 1 x OC-3 middle-speed interface (1310 nm) short reach; less than 8 km span length; protected 1+1; 0ºC to 50ºC; common with 2400 ADM HD Trib/ 600 ADM; FC, SC, ST, D4 connector(s); optical power level = low)	$ 26.40	$ 22.00
Additional Part 9 (Item 3.4.30)		MC6A-31xA MC6A-31FA (FC Connector) MC6A-31CA (SC Connector) MC6A-31TA ST Connector) MC6A-31DA (D4 Connector)	Multi-Mode Middle-speed channel unit OC-3 (short reach); supports the OC-3 Trib interface as follows: Line interface 1555.52 Mb/s optical signal, Optical power level: low, Optical wavelength 1270 to 1360 nm, Operation temperature range: -40º to +65ºC, Span length: short reach (5.1 km typical); Multiplexes and demultiplexes three STS-1 signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR and BLSR applications; Provides terminal and facility lookback functions; Monitors BER; Provides provisionable payload defect indication (PDI) signal STS-1/STS-3s paths when used for UPSR and BLSR applications; Supports SONET/SDH; Unit common to FLM150ADM, FLM-600ADM, and LM-2400ADM system that accomodate multi-mode fiber connections	$ 24.20	$ 19.80
3.4.32		MS6A-OPT2	Supports synchronization status messaging and MS6A-OPT features	$ 12.10	$ 9.90
3.4.33	EC6A	EC6A	EOC Processor- SONET Tributary	$ 18.01	$ 15.07
3.4.34		EC6A-24G	EOC Processor- used for 2.4G connection	$ 24.20	$ 19.80
3.4.35		EC6A-DL1	DCC Processor for OC-3/ STS-1 TRIB, software downloadable, supports SDCC on all SONET TRIBs	$ 41.80	$ 35.20

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 19

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.4.36	HC6A	HC6A-6LX1 HC6A-6LR1 (FC Connector) HC6A-6LC1 (SC Connector) HC6A-6LT1 (ST Connector) HC6A-6LD1 (D4 Connector)	High Speed- OC-12 Long Reach, 1310 nm, FC, SC, ST, D4 Connectors, Non-hardened	$ 72.40	$ 60.58
3.4.37		HC6A-6LX2 HC6A-6LR2 (FC Connector) HC6A-6LC2 (SC Connector) HC6A-6LT2 (ST Connector) HC6A-6LD2 (D4 Connector)	High Speed- OC-12 Long Reach, 1550 nm, FC, SC, ST, D4 Connectors, Non-hardened	$ 151.80	$ 126.50
3.4.38		HC6A-6LX3 HC6A-6LR3 (FC Connector) HC6A-6LC3 (SC Connector) HC6A-6LT3 (ST Connector) HC6A-6LD3 (D4 Connector)	High Speed- OC-12 Long Reach, 1310 nm, FC, SC, ST, D4 Connectors, Extended Temperature	$ 116.60	$ 96.80
3.4.39		HC6A-6EL1	High Speed- 2.4Gb/s Upgrade; Ring, Term LNR ADM (cannot drop OC-12 TRIBs from shelf)	$ 63.80	$ 52.80
3.4.40		HC6A-6EL2	High Speed- 2.4 Gb/s Upgrade; Ring, Term LNR ADM (can drop OC-12 TRIBs from shelf)	$ 29.70	$ 24.20

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 20

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	**Slot**	**Unit Type**	**Description**	**24-Hour Monthly Maint Service Price**	**Prime Period Monthly Maint Service Price**
3.4.41		HC6A-RLX1 HC6A-RLR1 (FC Connector) HC6A-RLC1 (SC Connector) HC6A-RLT1 (ST Connector) HC6A-RLD1 (D4 Connector)	High Speed- OC-12 Long Reach, 1310 nm, Regenerator application only, FC, SC, ST, D4 Connectors	$ 86.90	$ 72.60
3.4.42		HC6A-RLX3 HC6A-RLR3 (FC Connector) HC6A-RLC3 (SC Connector) HC6A-RLT3 (ST Connector) HC6A-RLD3 (D4 Connector)	High Speed- OC-12 Long Reach, 1310 nm, Regenerator Application only, Hardened, FC, SC, ST, D4 Connectors	$ 89.10	$ 74.80
3.5 FLM 2400					
Hardwired Equipment					
3.5.1		HSE Shelf	High Speed Shelf with integral fiber storage tray	$ 60.50	$ 50.60
3.5.2		HD TRIB	Shelf High Density Tributary Shelf (Two max per FLM-2400ADM)	$ 38.50	$ 33.00
Additional Part (Item 3.5.2)		Shelf	ADM Shelf Assembly (Four max per FLM-2400ADM)	$ 57.20	$ 47.30
3.5.3		Fan Shelf	Fan Shelf (HS Shelf)	$ 5.50	$ 4.40
3.5.4		Fan Unit	Fan Unit (HS Shelf)	$ 5.50	$ 4.40
3.5.5		Air Filter	Air Filter	$ 2.20	$ 2.20
3.5.6		Panel	Fiber Storage Tray (HS Shelf)	$ 4.40	$ 3.30
3.5.7		Panel	Heat Shield for Regen application	$ 2.20	$ 2.20
3.5.8		Cable (CAB1)	Signal cables between HS and TRIB shelves (Used with HC6A-6EL1s in 600 tributary shelf applications and for OC-3 HD tributary shelf applications; Only CAB4 cables may be used with HC6A-6EL2s and other HD tributary applictions.)	$ 2.20	$ 2.20

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 21

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	**Slot**	**Unit Type**	**Description**	**24-Hour Monthly Maint Service Price**	**Prime Period Monthly Maint Service Price**
3.5.9		Cable (CAB2)	Signal cables between HS and TRIB shelves (CAB2 cables are used only when an FLM-600ADM ring migrates to FLM-2400ADM ring.)	$ 5.50	$ 4.40
3.5.10		Cable (CAB3)	Signal cables between HS shelf and HCA6-6EL2 units in FLM 600 ADM TRIB shelf	$ -	$ -
Corrects Description 3.5.10		Cable (CAB3)	Interconnects 600 Tributary interface cards: HC6A-6EL2 to HC6A-6EL2. Used front-of-card to front-of-card; UPSR applications.	$ 2.20	$ 2.20
Additional Part (Item 3.5.10)		Cable (CAB4)	Signal cables between HS shelf and HCA6-6EL2 units in FLM 600 ADM TRIB shelf; used to inter-connect HS shelf with HD Tributary shelves	$ 2.20	$ 2.20
Additional Part (Item 3.5.10)		Tributary Interface Cable	Intershelf cable; 5'	$ 1.10	$ 1.10
Additional Part (Item 3.5.10)		Tributary Interface Cable	Intershelf cable; 7"	$ 1.10	$ 1.10
3.5.11		MC6A3BRD Cable	Bridge cable between bridge unit and HC2T-MDL	$ 2.20	$ 2.20
HS Shelf common Plug-in Units					
3.5.12	PW2H	PW2H-HS	Power Supply for HS common units; HS optical units are self-powered	$ 5.50	$ 4.40
3.5.13	HS2H	HS2H-LTE1	High Speed Switch - I + I Terminal	$ 9.90	$ 7.70
3.5.14		HS2H-ADM1	High Speed Switch - I + I ADM	$ 16.50	$ 14.30
3.5.15		HS2H-RNG2	High Speed Switch - I + I Ring (TSA x 48 STS-1)	$ 14.30	$ 12.10
3.5.16		HS2H-REG	High Speed Switch- All regenerator applications	$ 9.90	$ 8.80
3.5.17		HS2H-A1DL	High Speed Switch control for I + I linear ADM, DCC, APS, SW & SWDL	$ 18.70	$ 16.50
Additional Part (Item 3.5.17)		HS2H-A2DL	High Speed Switch control for I + I linear ADM, SDCC & OW, APS, SW & SWDL; Supports Synchronization Status Messaging for release 10S/10BS and later	$ 23.10	$ 18.70

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 22

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
Additional Part (Item 3.5.17)		HS2H-U1	High Speed Switch control for TERM, w/o TSA, TERM w/TSA, UPSR, and REGEN configurations; SDCC; OC-48 Protection switching; Provides section and line overhead byte (OHB) processiung; Accesses the SONET APS byte for high-speed switching; Accesses the SDCC and OW bytes; Supports Synchronization Status Messaging for release 10S/10BS and later	$ 16.50	$ 13.20
3.5.18		HS2H-B1	High Speed Controller- BLSR	No Longer Available From Manufacturer	No Longer Available From Manufacturer
Replaces 3.5.18		HS2H-B1DL	High Speed Controller- BLSR; swdl; Indicates ring switch status; Accesses the SONET APS bytes for high-speed switching; Accesses the SDCC and OW bytes	$ 14.30	$ 12.10
3.5.19		MP2H-T12	Microprocessor- I + 1, TL1: AII applications with TSA x 48 STS-1 and single TID	$ 13.20	$ 11.00
3.5.20		MP2H-SLV	Slave Microprocessor- I + I and ADM applications; use in one HS shelf of ADM configuration; other HS shelf has standard MP2H card; use for TSA x 48 STS-1 and single TID	$ 16.50	$ 14.30
3.5.21		MP2H-DL	Microprocessor for all TL1/X.25 with SWDL	$ 35.20	$ 29.70
Additional Part (Item 3.5.21)		MP2H-DLB	supports SWDL when OSS interface is TL1/OSI; Overall HS shelf control; Collects alarm, status, and provisioning; Provides nonvolitile memory backup of provisioning; collects alarm/status/performance monitoring information from tributary shelf microprocessor; Supports tributary SDCC; Supports HM2H-A1 unit with TSA; Supports HM2H-A2 unit without TSA; Supports HM2H-A3 unit for regenerator applications; Supports HM2H-B1 unit for BLSR; supports HM2H-C1 unit; Supports a single TID with FLM600ADM trib shelves; Use with SV2H-DL/ -DLB, MP2T-DL, and MP6A-24DL; Supports synchronization Status Messaging for release 10S/10BS and later	$ 35.20	$ 29.70

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 23

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.5.22		MP2H-DLS	Microprocessor for all TL1/X.25(1+1) Term, Reg. ADM, and Ring with SWDL. In linear configuration use in SLAVE shelf.	$ 35.20	$ 29.70
3.5.23		MP2H-B1	Microprocessor for BLSR	$ 15.40	$ 12.10
3.5.24		AW2H-A1	Alarm and Orderwire- Alarm Only	$ 9.90	$ 8.80
3.5.25		AW2H-A2	Alarm and Orderwire- Alarm Orderwire	$ 13.20	$ 11.00
3.5.26		SV2H-T12	Supervisory- 1 + 1, TL1/X.25; All applications with TSA x 48 STS-1 and single TID	$ 25.30	$ 20.90
3.5.27		SV2H-DL	Supervisory OS interface for TL1/X.25 & LCN 1+1 applications. Supports TSA x 48 and single TID W/ SWDL	$ 35.20	$ 29.70
Additional Part (Item 3.5.27)		SV2H-DLB	supports terminal, linear, REGEN, UPSR, and BLSR; SWDL; Used with MP2H-DL/-DLB with TSA, HM2H-A2, HM2H-A3, HM2H-B1, and HM2H-C1 units; Provides user with access for TL1 commands and FLEXR; Provides nonvolitile memory backup of administration data stored on MP2H unit; Supports Synchronization Status Messaging for release 10S/10BS and later	$ 35.20	$ 29.70
3.5.28		SV2H-B1	Supervisory OS interface for BLSR	$ 28.60	$ 23.10
Tributary Shelf Common Plug-in Units					
3.5.29	PW1A	PW1A	Power Supply	Duplicate Item, Please See Item 3.5.71	Duplicate Item, Please See Item 3.5.71
3.5.30		PW1A-TRIB	Power Unit, supports HD TRIB optics as well as HD TRIBs with DS3 and STS1 interfaces	$ 4.40	$ 4.40
3.5.31	HS2T	HS2T-D3	Group Processor- DS3	$ 12.10	$ 9.90
3.5.32		HS2T-S1	Group Processor- STS-1	$ 11.00	$ 9.90
3.5.33		HS2T-C3	Group Processor- OC-3	$ 29.70	$ 24.20
3.5.34		HS2T-SDL	Group Processor, Required for STS-1 interfaces W/ SDCC & SWDL	Duplicate Item, Please See Item 3.5.76	Duplicate Item, Please See Item 3.5.76
3.5.35		HS2T-C3DL	Group Processor, Required for OC-3/c, OC-12/c interfaces W/ SDCC & SWDL. Use W/A 1/2/4	$ 48.40	$ 40.70

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 24

SPO Price List No. 00-18
12/1/99 to 11/30/01

Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
			GROUP III: MAINTENANCE		
3.5.36		MP2T-T12	TRIB Shelf Microprocessor- all applications with TSA x 48 STS-1 and single TID	Duplicate Item, Please See Item 3.5.78	Duplicate Item, Please See Item 3.5.78
3.5.37		MP2T-DL	TRIB Shelf Processor (MPU) SWDL	$ 15.40	$ 13.20
3.5.38	HT2H	HT2H-LR1X HT2H-LR1B (FC Connector) HT2H-LR1S (ST Connector)	High Speed Transmitter- OC-48, 1310 nm, Basic, FC, ST Connector	$ 81.40	$ 68.20
3.5.39		HT2H-LR1H (FC Connector)	High Speed Transmitter- OC-48, 1310 nm, high, I0E-13BER	$ 113.30	$ 95.70
3.5.40		HT2H-LR2X HT2H-LR2B (FC Connector) HT2H-LR2S (ST Connector)	High Speed Transmitter- OC-48, 1550 nm, Basic	$ 133.10	$ 111.10
3.5.41		HT2H-LR2H (FC Connector)	High Speed Transmitter- OC-48, 1550 nm, High	$ 190.30	$ 159.50
3.5.42		HT2H-NB21	High Speed Transmitter- OC-48, 1550 nm, narrowband	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.5.43		HT2H-L1BX HT2H-L1BC (SC Connector) HT2H-L1BD (D4 Connector)	High Speed Transmitter- OC-48, 1310 nm, SD or D4 Connector	$ 86.90	$ 72.60
3.5.44		HT2H-L2BC HT2H-L2BC (SC Connector) HT2H-L2BD D4 Connector)	High Speed Transmitter- OC-48, 1550 nm, SC or D4 Connector	$ 141.90	$ 118.80
3.5.45		HT2H-NBF1	High Speed Transmitter- OC-48, 1558 nm for WDM, EDFA	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.5.46		HT2H-NBF2	High Speed Transmitter- OC-48, 1536 nm for WDM, EDFA	No Longer Available From Manufacturer	No Longer Available From Manufacturer

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 25

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		

Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.5.47	HR2H	HR2H-LR1X HR2H-LR1B (FC Connector) HR2H-LR1S (ST Connector)	High Speed Receiver-OC-48, 1310 nm Basic, FC and ST Connectors	$ 117.70	$ 97.90
3.5.48		HR2H-LR1H	High Speed Receiver- OC-48, 1310 nm, High	$ 158.40	$ 133.10
3.5.49		HR2H-LR2X HR2H-LR2B (FC Connector) HR2H-LR2S (ST Connector)	High Speed Receiver- OC48, 1550 nm, Basic, FC and ST Connectors	$ 196.90	$ 165.00
3.5.50		HR2H-LR2H (FC Connector)	High Speed Receiver- OC-48,1550 nm, High	$ 284.90	$ 238.70
3.5.51		HR2H-L1BX HR2H-L1BD (D4 Connector) HR2H-L1BC SC Connector)	High Speed Receiver- OC-48, 1310 nm, SC or D4 Connector	$ 125.40	$ 105.60
3.5.52		HR2H-L2BX HR2H-L2BC (SC Connector) HR2H-L2BD (D4 Connector)	High Speed Receiver- OC-48, 1550 nm, SC or D4 Connector	$ 210.10	$ 176.00
3.5.53	HM2H	HM2H-A1	Muldem- TSA, all applications except Regen	$ 73.70	$ 61.60
3.5.54		HM2H-A2	Muldem-1+1, l:N Working, no TSA	$ 51.70	$ 42.90
3.5.55		HM2H-A3	Muldem- Section Terminating Regen, no TSA	$ 8.80	$ 6.60
3.5.56		HM2H-B1	Muldem, timing control for BLSR	$ 73.70	$ 61.60

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 26

SPO Price List No. 00-18
12/1/99 to 11/30/01

	GROUP III: MAINTENANCE				
Item No.	**Slot**	**Unit Type**	**Description**	**24-Hour Monthly Maint Service Price**	**Prime Period Monthly Maint Service Price**
Additional Part (Item 3.5.56)		HM2H-C1	Supports TSA terminal, linear, UPSR, and BLSR configurations; Used in SWDL networks; Multiplexes/demultiplexes compsite signals between tributary shelves/optical transmitter/receiver; Provides local clock for the FLM2400ADM system from external DS1 BITS, optical line timing, or internal Stratum 3 clock; Provides both automatic and manual switching function for the external timing reference; Provides holdover function; Provides reference clock switching funtion by synchronization message; Supports Synchronization Status Messaging for release 10S/10BS UPSR, and BLSR applications	$ 80.30	$ 67.10
Tributary Shelf Transport Plug-in Units (High Density Trib)					
3.5.57	HC2T	HC2T-MDL	High Speed, Terminal and Ring, DS3, STS-1, & OC-3	$ 9.90	$ 8.80
3.5.58		HC2T-C12L	High Speed and Ring, OC-12	$ 17.60	$ 14.30
3.5.59	MC6A	MC6A-D3E	Middle Speed - 3 x DS3	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.5.60		MC6A-D3E2	Electrical 3 x DS3 interface (Enhanced), protected 1:4 in quad. Switch on unequipped code.	$ 11.00	$ 9.90
3.5.61		MC6A-ST1E	Middle Speed - 3 x STS-1	No Longer Available From Manufacturer	No Longer Available From Manufacturer

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 27

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
Replaces 3.5.61		MC6A-ST1P	Middle-speed channel unit ST1P; LOS, LOF monitoring; provides EC-1 electrical Trib interfaces for three STS-1 signals; Path overhead (POH) monitoring in ring configurations; control line and path switching based on BER detection; Provides provisionable STS-1 unequipped code (UNEQ) code path protection switching; Provides provisionable payload defect indication (PDI) when used for UPSR and BLSR applications; AIS generation and line and path AIS detection circuitry; Line build out (LBO) selections; Terminal and fecility loopback functions; Supports payload label mismatch (PLM) code when used for UPSR and BLSR applications	$ 15.40	$ 13.20
3.5.62		MC6A-3BRD	Middle Speed Bridge for OC-3	$ 12.10	$ 9.90
3.5.63		MC6A-31Mx	Middle Speed- OC-3 Intermediate Reach 1310 nm, Hardened, FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer	No Longer Available From Manufacturer

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 28

SPO Price List No. 00-18
12/1/99 to 11/30/01

GROUP III: MAINTENANCE					
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
Replaces 3.5.63		MC6A-31xx MC6A-31FM (FC Connector) MC6A-31CM (SC Connector) MC6A-31MT (ST Connector) MC6A-31DM (D4 Connector)	Middle-speed channel Unit - OC-3 (Intermediate Reach); Supports the OC-3 tributary interface as follows: Line interface 155.52 Mb/s optical signal; Optical power level = middle; Optical wave length = 1310 nm; Operation temperatur range: -40° to +65°C; span length = intermediate reach (15 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; drops/inserts Section and Line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR applications only); Provides terminal and facility loopback functions; Monitors the bit error rate (BER); Provides provisionable Payload Defect Indication (PDI) signal STS-1/STS-3c paths used for UPSR applications when mounted in FLM600ADM and FLM600TRIB shelves; Supports Payload label Mismatch (PLM signal STS-1/STS-3c path code used for UPSR applications when mounted in FLM600ADM and FLM600TRIB shelves; Unit common to FLM150ADM, FLM600ADM, and FLM2400ADM	$ 25.30	$ 22.00
3.5.64		MC6A-31LX	Middle Speed- OC-3 Long Reach, 1310 nm, Non-Hardened, FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer	No Longer Available From Manufacturer
Replaces 3.5.64		MC6A-31xL MC6A-31FL (FC Connector) MC6A-31CL (SC Connector) MC6A-31TL (ST Connector) MC6A-31DL (D4 Connector)	Middle-speed channel unit - OC-3 (long reach; Supports the OC-3 trib interfaces as follows: Line interface: 155.52 Mb/s optical signal' Optical power level = High, Optical wavelength: 1310 nm, Operation temperature range: -40° through +65°C, Span length: Long reach (40 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switchuing at STS-1 or STS-3c levels; Unit common to FLM-150ADM, FLM-600ADM, and FLM-2400ADM	$ 25.30	$ 22.00

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 29

SPO Price List No. 00-18
12/1/99 to 11/30/01

GROUP III: MAINTENANCE					
Item No.	**Slot**	**Unit Type**	**Description**	**24-Hour Monthly Maint Service Price**	**Prime Period Monthly Maint Service Price**
3.5.65		MC6A-31Sx	Optical 1 x OC-3 HD shelf interface (1310 nm) Short Reach/ Protected 1 + 1; FC, SC, ST, D4 Connectors	No Longer Available From Manufacturer	No Longer Available From Manufacturer
Replaces 3.5.65		MC6A-31xS MC6A-31FS (FC Connector) MC6A-31CS (SC Connector) MC6A-31TS (ST Connector) MC6A-31DS (D4 Connector)	Supports PLM, PDI, and MC6A-31Lx features (Optical 1 x OC-3 middle-speed interface (1310 nm) short reach; less than 8 km span length; protected 1+1; 0ºC to 50ºC; common with 2400 ADM HD Trib/ 600 ADM; FC, SC, ST, D4 connector(s); optical power level = low)	$ 26.40	$ 22.00
3.5.66		MC6A-2LX1 MC6A-2LR1 (FC Connector) MC6A-2LC1 (SC Connector) MC6A-2LT1 ST Connector) MC6A-2LD1 (D4 Connector)	OC-12/c 1310 nm HD Shelf, FC, SC, ST, D4 Connectors	$ 79.20	$ 66.00

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 30

SPO Price List No. 00-18
12/1/99 to 11/30/01

GROUP III: MAINTENANCE					
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
Additional Part (Item 3.5.66)		a1 MC6A-31FA (FC Connector) MC6A-31CA (SC Connector) MC6A-31TA ST Connector) MC6A-31DA (D4 Connector)	Multi-Mode Middle-speed channel unit OC-3 (short reach); supports the OC-3 Trib interface as follows: Line interface 1555.52 Mb/s optical signal, Optical power level: low, Optical wavelength 1270 to 1360 nm, Operation temperature range: -40º to +65ºC, Span length: short reach (5.1 km typical); Multiplexes and demultiplexes three STS-1 signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR and BLSR applications; Provides terminal and facility lookback functions; Monitors BER; Provides provisionable payload defect indication (PDI) signal STS-1/STS-3s paths when used for UPSR and BLSR applications; Supports SONET/SDH; Unit common to FLM150ADM, FLM-600ADM, and LM-2400ADM system that accomodate multi-mode fiber connections	$ 26.40	$ 22.00
3.5.67		MC6A-2LX2 MC6A-2LR2 (FC Connector) MC6A-2LC2 (SC Connector) MC6A-2LT2 ST Connector) MC6A-2LD2 (D4 Connector)	OC- 12/c 1550 nm HD Shelf, FC, SC, ST, D4 Connectors	$ 192.50	$ 160.60
3.5.68		MC6A-2THR	Passes Clock signal in OC-12 HD TRIB applications	$ 6.60	$ 5.50
3.5.69	MS2T	MS2T-D31	Middle Speed Switch - DS3 and EC-1 interface units	$ 6.60	$ 5.50
3.5.70		MS2T-S1	Middle Speed Switch - STS-1	Not An Available Product	Not An Available Product
Tributary Shelf Common Plug-in Units					
3.5.71	PW1A	PW1A	Power Supply (Typically used in the FLM-150ADM; does not support OC-3/OC-12 in HD TRIB; Cannot be mixed with PW1A-TRIB unit)	$ 5.50	$ 4.40

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 31

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.5.72		PW1A-TRIB	Power Unit, supports HD TRIB optics as well as HD TRIBs with DS3 and STS-1 interfaces	Duplicate Item, Please See Item 3.5.30	Duplicate Item, Please See Item 3.5.30
3.5.73	HS2T	HS2T-D3	Group Processor- DS3	Duplicate Item, Please See Item 3.5.31	Duplicate Item, Please See Item 3.5.31
3.5.74		HS2T-S1	Group Processor- STS-1	Duplicate Item, Please See Item 3.5.32	Duplicate Item, Please See Item 3.5.32
3.5.75		HS2T-C3	Group Processor- OC-3	Duplicate Item, Please See Item 3.5.33	Duplicate Item, Please See Item 3.5.33
3.5.76		HS2T-SDL	Group Processor, Required for STS-1 interfaces W/ SDCC & SWDL	No Longer Available From Manufacturer	No Longer Available From Manufacturer
Replaces 3.5.76		HS2T-SDL2	SWDL High-speed STS-1 switch-- Used when tributary signal type is EC-1; Controls switching of HC2T units; Accesses SONET overhead bytes; Provides SDCC extensions on EC-1 interfaces; Controls switching of HC2T units; Supports synchronization Status Messaging for release 10S/10BS and later	$ 35.20	$ 29.70
3.5.77		HS2T-C3DL	Group processor, Required for OC-3/c, OC-12/c interfaces W/ SDCC & SWDL, Use W/A1/2/4	Duplicate Item, Please See Item 3.5.35	Duplicate Item, Please See Item 3.5.35
3.5.78		MP2T-T12	TRIB Shelf Microprocessor- all applications with TSA x 48 STS-1 and single TID	$ 48.40	$ 40.70
3.5.79		MP2T-DL	TRIB Shelf Processor (MPU) SWDL	Duplicate Item, Please See Item 3.5.37	Duplicate Item, Please See Item 3.5.37
3.5.80	HT2H	HT2T-LT1X	High Speed Transmitter-OC-48, 1310 nm, Basic, FC Connector	Duplicate Item, Please See Item 3.5.38	Duplicate Item, Please See Item 3.5.38
3.5.81		HT2TH-LR1H	High Speed Transmitter-OC-48, 1310 nm, High 10E-13 BER	Duplicate Item, Please See Item 3.5.39	Duplicate Item, Please See Item 3.5.39

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 32

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	**Slot**	**Unit Type**	**Description**	**24-Hour Monthly Maint Service Price**	**Prime Period Monthly Maint Service Price**
3.5.82		HT2H-LR2X	High Speed Transmitter-OC-48, 1550 nm, Basic	Duplicate Item, Please See Item 3.5.40	Duplicate Item, Please See Item 3.5.40
3.5.83		HT2H-LR2H	High Speed Transmitter-OC-48, 1550 nm, High	Duplicate Item, Please See Item 3.5.41	Duplicate Item, Please See Item 3.5.41
3.5.84		HT2H-NB21	High Speed Transmitter-OC-48, 1550 nm, narrowband	Duplicate Item, Please See Item 3.5.42	Duplicate Item, Please See Item 3.5.42
3.5.85		HT2H-L1BX	High Speed Transmitter-OC-48, 1310 nm, SC or D4 Connector	Duplicate Item, Please See Item 3.5.43	Duplicate Item, Please See Item 3.5.43
3.5.86		HT2H-L2BC	High Speed Transmitter-OC48, 1550 nm, SC or D4 Connector	Duplicate Item, Please See Item 3.5.44	Duplicate Item, Please See Item 3.5.44
3.5.87		HT2H-NBF1	High Speed Transmitter-OC-48, 1558 nm, for WDM, EDFA	Duplicate Item, Please See Item 3.5.45	Duplicate Item, Please See Item 3.5.45
3.5.88		HT2H-NBF2	High Speed Transmitter-OC-48, 1536 nm, for WDM, EDFA	Duplicate Item, Please See Item 3.5.46	Duplicate Item, Please See Item 3.5.46
3.5.95	HM2H	HM2H-A1	Muldem-TSA, all applications except Regen	Duplicate Item, Please See Item 3.5.53	Duplicate Item, Please See Item 3.5.53
3.5.96		HM2H-A2	Muldem-1+1, 1:N Working, no TSA	Duplicate Item, Please See Item 3.5.54	Duplicate Item, Please See Item 3.5.54
3.5.97		HM2H-A3	Muldem, Section Terminating Regen, no TSA	Duplicate Item, Please See Item 3.5.55	Duplicate Item, Please See Item 3.5.55
3.5.98		HM2H-B1	Muldem, timing control for BLSR	Duplicate Item, Please See Item 3.5.56	Duplicate Item, Please See Item 3.5.56
Tributary Shelf Transport Plug-in Units					
3.5.99	HC2T	HC2T-MDL	High Speed-Terminal and Ring, DS3, STS-1, & OC-3	Duplicate Item, Please See Item 3.5.57	Duplicate Item, Please See Item 3.5.57

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 33

SPO Price List No. 00-18
12/1/99 to 11/30/01

Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.5.100		HC2T-C12L	High Speed-Terminal and Ring, OC-12	Duplicate Item, Please See Item 3.5.58	Duplicate Item, Please See Item 3.5.58
3.5.101	MC6A	MC6A-D3E	Middle Speed-3xDS3	Duplicate Item, Please See Item 3.5.59	Duplicate Item, Please See Item 3.5.59
3.5.102		MC6A-D3E2	Electrical 3 x DS3 interface (Enhanced), protected 1:4 in quad. Switch on unequipped code.	Duplicate Item, Please See Item 3.5.60	Duplicate Item, Please See Item 3.5.60
3.5.103		MC6A-ST1E	Middle Speed-3xSTS-1	Duplicate Item, Please See Item 3.5.61	Duplicate Item, Please See Item 3.5.61
3.5.104		MC6A-3BRD	Middle Speed Bridge for OC-3	Duplicate Item, Please See Item 3.5.62	Duplicate Item, Please See Item 3.5.62
3.5.105		MC6A-31MX	Middle Speed-OC-3 Intermediate Reach, 1310 nm, Hardened, FC, SC, ST, D4 Connectors	Duplicate Item, Please See Item 3.5.63	Duplicate Item, Please See Item 3.5.63
3.5.106		MC6A-31LX	Middle Speed-OC-3 Long Reach, 1310 nm, Non-Hardened, FC, SC, ST, D4 Connectors	Duplicate Item, Please See Item 3.5.64	Duplicate Item, Please See Item 3.5.64
3.5.107		MC6A-31SX	Optical 1 x OC-3 HD shelf interface (1310 nrn) Short reach/ protected 1+1, FC, SC, ST, D4 Connectors	Duplicate Item, Please See Item 3.5.65	Duplicate Item, Please See Item 3.5.65
3.5.108		MC6A-2LX1	OC- 12/c 13 10 nm HD Shelf, FC, SC, ST, D4 Connectors	Duplicate Item, Please See Item 3.5.66	Duplicate Item, Please See Item 3.5.66
3.5.109		MC6A-2LX2	OC-12/c 1550 nm HD Shelf, FC, SC, ST, D4 Connectors	Duplicate Item, Please See Item 3.5.67	Duplicate Item, Please See Item 3.5.67
3.5.110		MC6A-2THR	Passes Clock signal in OC-as HD TRIB applications	Duplicate Item, Please See Item 3.5.68	Duplicate Item, Please See Item 3.5.68
3.5.111	MS2T-D31	MS2T-D31	Middle Speed Switch-DS3	Duplicate Item, Please See Item 3.5.69	Duplicate Item, Please See Item 3.5.69

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 34

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.5.112		MS2T-S1	Middle Speed Switch-STS-1	Duplicate Item, Please See Item 3.5.70	Duplicate Item, Please See Item 3.5.70
3.6 FLM OPX					
EDFA, WDM and Alarm Unit Lists					
3.6.1	ALM	Shelf-OPX	shelf	Not An Available Product	Not An Available Product
3.6.2	OP	ALM-OPX	Alarm Unit	Not An Available Product	Not An Available Product
3.6.3		OP-PF21	EDFA Unit (Laser type = 1558 ±5nm (_1), FC connector)	Not An Available Product	Not An Available Product
3.6.4		OP-PF22	EDFA Unit (Laser type = 1536 ±5nm (_2), FC connector)	Not An Available Product	Not An Available Product
3.6.5		OP-WF1	WDM Unit (Tx side Laser type - _1, Rx side laser type= _2, FC connector)	Not An Available Product	Not An Available Product
3.6.6		OP-WF2	WDM Unit (Tx side Laser type= _1, FC connector)	Not An Available Product	Not An Available Product
3.7 FLM 50/150					
Common Plug-in Units					
3.7.4	PWR	PWR	Power Supply	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.5	AOW	AOW-ALM	Alarm Only	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.6		AOW-INTI	Alarm, Orderwire-Interoffice	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.7		AOW-INT2	Alarm, Orderwire-Housekeeping-Interoffice	No Longer Available From Manufacturer	No Longer Available From Manufacturer

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 35

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	**Slot**	**Unit Type**	**Description**	**24-Hour Monthly Maint Service Price**	**Prime Period Monthly Maint Service Price**
3.7.8		AOW-LOP2	Alarm, Orderwire-Housekeeping-Loop	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.9	OHA	OHA-STD	Overhead Access w/VF	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.10		OHA-VF	Overhead Access w/VF	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.11		OHA-SD2	Overhead Access-TL1/X.25	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.12		OHA-VF2	Overhead Access w/VF-TL1/X.25	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.13	OIU	O1U-PL3	OS Interface- Parallel, w/TBOSS & w /8-bit modem int.	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.14		OIU-TB4	OS Interface-TBOS, w/8-bit modem int.	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.15		OIU-F5	OS Interface-FSI	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.16		OIU-PL	OS Interface-Parallel, w/TBOS	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.17	MPU	MPU-LOC	MPU-Local Access	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.18		WU-SYS	MPU-System Access	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.19		MPU-PH2	MPU-TL1/X.25	No Longer Available From Manufacturer	No Longer Available From Manufacturer
Transport Plug-in Units					

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 36

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.7.20	LSCH	LSCH-D1	DS1 Low Speed- VT1.5 Mapping	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.21		LSCH-D3	DS3 Low Speed-DS3 Mapping	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.22		LSCH-M12	DS1 Low Speed-DS3 Mapping	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.23		Test Unit	Streaker Card-Test Only	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.24	LSSW	LSSW	Low Speed Switch	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.25	HSCH	HSCH-LW31	OC-3 High Speed-D1/D3 Units(RI)	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.26		HSCH-LW33	OC-3 High Speed-D1/D3 Units (LR)	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.27		HSCH-ML11	OC-1 High Speed-D1/D3 M12 Units (RI)	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.28		HSCH-ML31	OC-3 High Speed-D1/D3/M12 Units (RI)	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.29		HSCH-ML33	OC-3 High Speed-D1/D3/M12 Units (LR)	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.30		HSCH-ML34	OC-3 High Speed-D1/D3/M12 Units(LR) w/Clock Output	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.31		HSCH-ML36	OC-3 High Speed-D1/D3/M12 Units (1550 nm)	No Longer Available From Manufacturer	No Longer Available From Manufacturer

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 37

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
3.7.32		HSCH-ML37	OC-3 High Speed-D1/D3/MW12 Units (1550 nm)	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.7.33		MSCH-M23	DS3 High Speed	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.8 NETWORK MANAGEMENT SYSTEM					
3.8.1		FLEXR	Flexible User Interface software package to provision, maintain and monitor FLMs and FACTRs	$ 4.40	$ 3.30
3.8.2		FLEXR Plus	Network Management software application and element manager for SONET product line. (Basic expansion from an existing 50 NE system to a 100 NE system)	$ 1,115.40	$ 1,115.40
3.9 ANCILLIARY EQUIPMENT					
3.9.1		HA15B-0001-A046	Terminal Bay Configuration: 7' blue Hendry rack, fuse & alarm panel, power and alarm wiring	$ 38.50	$ 31.90
3.9.2			7' Blue Hendry Rack	$ 5.50	$ 4.40
3.9.3		ISC-77	Instant Service Cabinet	$ 52.80	$ 44.00
3.9.4		ISC-77AE	Instant Service Cabinet Configuration. Includes Ancilliary Equipment	$ 104.50	$ 88.00
3.9.5		HA15B-0001-B030	Fuse and Alarm Panel (FC9604FA21)	$ 8.80	$ 7.70
3.9.6		HA15B-0001-B024	Fuse and Alarm Panel	$ 9.90	$ 7.70
3.10 BACKUP POWER SYSTEM					
3.10.1		HA15B-0001-	MPS Shelf	$ 7.70	$ 6.60
3.10.2		HA15B-0001-	Battery Shelves	$ 4.40	$ 4.40
3.10.3		FC9604MNC2	Monitor Control Shelves	$ 5.50	$ 4.40
3.10.4		FC9604SWA2	Switch Alarm Card	$ 4.40	$ 4.40
3.10.5		FC9604REC2	Rectifier Unit	$ 9.90	$ 8.80
3.10.6			Power Control Unit	Not An Available Product	Not An Available Product

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 38

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
Corrects Unit Type 3.10.6			Power Control Unit	$ 3.30	$ 3.30
3.10.7			12V Lead Acid Battery Packs	$ 3.30	$ 2.20
3.11 CABLES					
3.11.1	ALM	21-339-002	Office alarm relay closures	No Longer Available From Manufacturer	No Longer Available From Manufacturer
3.11.2		21-452-006	Same as above	$ 1.10	$ 1.10
3.11.3	OHA	21-538-xxx (21-538-050)	Access for unused SONET overhead	$ 1.10	$ 1.10
3.11.4	EXT CLK	21-615-xxx (21-615-075)	External clock-secondary	$ 1.10	$ 1.10
3.11.5		21-614-xxx (21-614-050)	External clock-primary	$ 1.10	$ 1.10
3.11.6	H.K.2	21-537-xxx (21-537-050)	Housekeeping outputs	$ 1.10	$ 1.10
3.11.7	H.K.1	21-626-xxx (21-626-050)	Housekeeping inputs	$ 1.10	$ 1.10
3.11.8	OW/E2A1	22-605-xxx (21-605-050)	Orderwire, & TBOS INTF (bridging)	$ 1.10	$ 1.10
3.11.9	OW/E2A	21-185-xxx (21-185-025)	Orderwire/132A alarm cable (bridging)	$ 1.10	$ 1.10
3.11.10	OSS1	21-532-xxx (21-532-050)	X.25/TL1 or X.25/CMISE OSS link	$ 1.10	$ 1.10
3.11.11		21-153-xxx (21-153-050)	X.25 OSS link cable (AI switch)	$ 1.10	$ 1.10
3.11.12		21-534-xxx (21-534-050)	X.25/OSS back-to-back link	$ 1.10	$ 1.10
3.11.13	DS1 GPs3,4,5	21-822-xxx (21-822-050)	DS1 signal input and output groups	$ 2.20	$ 2.20
3.11.14	STS-1 GP1,GP2 DS3	20-020-001	STS-1 signal input and output - (3 Coax/Sheath Bulk 735A)	$ 1.10	$ 1.10
3.11.15		21-312-001	Single Coax (1' BNC-BNC)	$ 1.10	$ 1.10
3.11.16	PWR	22-515-xxx (21-515-050)	48V battery supply (Main A, B), battery return (GA, GB), frame ground (FG). With connector labels	$ 1.10	$ 1.10

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 39

SPO Price List No. 00-18
12/1/99 to 11/30/01

			GROUP III: MAINTENANCE		
Item No.	**Slot**	**Unit Type**	**Description**	**24-Hour Monthly Maint Service Price**	**Prime Period Monthly Maint Service Price**
3.11.17		22-516-xxx	48V battery supply (Main A, B), battery return (GA, GB), frame ground (FG). No labels.	Not An Available Product	Not An Available Product
3.11.18		21-337-xxx (21-337-050)	Office alarm relay closure bus cable	Not An Available Product	Not An Available Product
3.11.19		21-339-xxx (21-339-025)	Office alarm relay closure cable	$ 1.10	$ 1.10
3.11.20		21-452-xxx (21-452-050)	Office alarm relay closure cable	$ 1.10	$ 1.10
600 Tributary Shelf Transport Plug-in Units					
Additional Part		HA15B-0001-B126	Heat Shield/ Fiber Storage	$ 4.40	$ 3.30
Additional Part		FC9616FAC2	Faceplate Cover for Shelf	$ 3.30	$ 3.30
Additional Part	PW6A	PW6A	Power Supply	$ 5.97	$ 4.99
Additional Part		HS6A-AD2	High Speed Switch/Overhead Access, required for Terminal nodes in Regen applications	$ 23.10	$ 19.80
Additional Part		MP6A-24DL	Supports software download and MP6A-24G features	$ 17.60	$ 15.40
Additional Part		TCA-ENH	Enhanced TCA unit, supports sync messaging application	$ 8.80	$ 7.70
Additional Part	AW6A	AW6A-BSC	Alarm and Orderwire- Alarm Only	$ 6.08	$ 5.09
Additional Part		HC6A-6EL2	High Speed- 2.4 Gb/s Upgrade; Ring, Term LNR ADM (can drop OC-12 TRIBs from shelf)	$ 29.70	$ 24.20
Additional Part		SV6A-24G	Supervisory- 2.4 Gb/s Upgrade	$ 6.60	$ 5.50
Additional Part		Cable (CAB3)	Interconnects 600 Tributary interface cards: HC6A-6EL2 to HC6A-6EL2. Used front-of-card to front-of-card; UPSR applications.	$ 2.20	$ 2.20
Additional Part		Cable (CAB4)	Signal cables between HS shelf and HCA6-6EL2 units in FLM 600 ADM TRIB shelf; used to inter-connect HS shelf with HD Tributary shelves	$ 2.20	$ 2.20

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 40

SPO Price List No. 00-18
12/1/99 to 11/30/01

GROUP III: MAINTENANCE					
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
Additional Part		Tributary Interface Cable	Intershelf cable; 5'	$ 1.10	$ 1.10
Additional Part		Tributary Interface Cable	Intershelf cable; 7"	$ 1.10	$ 1.10
Additional Part		EC6A-24G	EOC Processor- used for 2.4G connection	$ 24.20	$ 19.80
Additional Part		SV6A-24G	Supervisory- 2.4 Gb/s Upgrade	$ 6.60	$ 5.50
Additional Part		MC6A-D3A2	Middle Speed- 3 x DS3 interface/ protected 1:1; (Provides unequipped code switching and STS-1 AIS injection)	$ 16.50	$ 14.30
Additional Part		MC6A-ST1P	Middle Speed Channel Unit ST1P. Provides POH, UNEQ, PDI, AIS generation and PLM	$ 15.40	$ 13.20
Additional Part		MC6A-31xM MC6A-31FM (FC Connector) MC6A-31CM (SC Connector) MC6A-31MT (ST Connector) MC6A-31DM (D4 Connector)	Middle-speed channel Unit - OC-3 (Intermediate Reach); Supports the OC-3 tributary interface as follows: Line interface 155.52 Mb/s optical signal; Optical power level = middle; Optical wave length = 1310 nm; Operation temperatur range: -40º to +65ºC; span length = intermediate reach (15 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; drops/inserts Section and Line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR applications only); Provides terminal and facility loopback functions; Monitors the bit error rate (BER); Provides provisionable Payload Defect Indication (PDI) signal STS-1/STS-3c paths used for UPSR applications when mounted in FLM600ADM and FLM600TRIB shelves; Supports Payload label Mismatch (PLM signal STS-1/STS-3c path code used for UPSR applications when mounted in FLM600ADM and FLM600TRIB shelves; Unit common to FLM150ADM, FLM600ADM, and FLM2400ADM	$ 25.30	$ 22.00

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 41

SPO Price List No. 00-18
12/1/99 to 11/30/01

GROUP III: MAINTENANCE					
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
Additional Part		MC6A-31xL MC6A-31FL (FC Connector) MC6A-31CL (SC Connector) MC6A-31TL (ST Connector) MC6A-31DL (D4 Connector)	Supports PLM, PDI and MC6A-31Lx features (Middle-speed channel unit - OC-3 (long reach; Supports the OC-3 trib interfaces as follows: Line interface: 155.52 Mb/s optical signal' Optical power level = High, Optical wavelength: 1310 nm, Operation temperature range: -40º through +65ºC, Span length: Long reach (40 km typical); Multiplexes and demultiplexes three STS-1 SPE signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switchuing at STS-1 or STS-3c levels; Unit common to FLM-150ADM, FLM-600ADM, and FLM-2400ADM)	$ 24.20	$ 19.80
Additional Part		MC6A-31Sx MC6A-31SR (FC Connector) MC6A-31SC (SC Connector) MC6A-31ST (ST Connector) MC6A-31SD (D4 Connector)	Middle Speed- OC-3 Short Reach, 1310 nm, FC, SC, ST, D4 Connectors (Optical 1 x OC-3 middle-speed interface (1310 nm) short reach; less than 8 km span length; protected 1+1; 0ºC to 50ºC; common with 2400 ADM HD Trib/ 600 ADM; FC, SC, ST, D4 connector(s); optical power level = low)	$ -	$ -
Additional Part		MC6A-31xS MC6A-31FS (FC Connector) MC6A-31CS (SC Connector) MC6A-31TS (ST Connector) MC6A-31DS (D4 Connector)	Supports PLM, PDI, and MC6A-31Lx features (Optical 1 x OC-3 middle-speed interface (1310 nm) short reach; less than 8 km span length; protected 1+1; 0ºC to 50ºC; common with 2400 ADM HD Trib/ 600 ADM; FC, SC, ST, D4 connector(s); optical power level = low)	$ 26.40	$ 22.00

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 42

SPO Price List No. 00-18
12/1/99 to 11/30/01

GROUP III: MAINTENANCE					
Item No.	Slot	Unit Type	Description	24-Hour Monthly Maint Service Price	Prime Period Monthly Maint Service Price
Additional Part		MC6A-31xA MC6A-31FA (FC Connector) MC6A-31CA (SC Connector) MC6A-31TA ST Connector) MC6A-31DA (D4 Connector)	Multi-Mode Middle-speed channel unit OC-3 (short reach); supports the OC-3 Trib interface as follows: Line interface 1555.52 Mb/s optical signal, Optical power level: low, Optical wavelength 1270 to 1360 nm, Operation temperature range: -40º to +65ºC, Span length: short reach (5.1 km typical); Multiplexes and demultiplexes three STS-1 signals to/from STS-3 signal; Drops/inserts section and line overhead bytes; Provides unequipped code path switching at STS-1 or STS-3c levels (UPSR and BLSR applications; Provides terminal and facility lookback functions; Monitors BER; Provides provisionable payload defect indication (PDI) signal STS-1/STS-3s paths when used for UPSR and BLSR applications; Supports SONET/SDH; Unit common to FLM150ADM, FLM-600ADM, and LM-2400ADM system that accomodate multi-mode fiber connections	$ 26.40	$ 22.00
Additional Part		MS6A-OPT2	Supports synchronization status messaging and MS6A-OPT features	$ 12.10	$ 9.90

Fujitsu SONET
and Related Equipment
Group III: Maintenance

Group III - 43

SPO Price List No. 00-18
12/1/99 to 11/30/01